1-, 2-, 3-Cell CTPC Console Installation and Service Guide

67-2014 Rev G

Includes G4 Upgrade, Install and Service Guides

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Table of Contents

CT PC Box Parts 1-1
Introduction 1-1
Tools List 1-1
Keyboard Door Bezel 1-2
Removal Procedure 1-2
Replacement Procedure 1-3
Keyboard 1-4
Removal Procedure 1-4
Replacement Procedure 1-5
Speaker 1-5
Removal Procedure 1-5
Replacement Procedure 1-5
LCD Bezel Assembly 1-6
Removal Procedure 1-6
Replacement Procedure 1-9
LCD Data Cable 1-9
Removal Procedure 1-9
Replacement Procedure 1-9
LCD Display and Touch Screen Glass 1-10
Removal Procedure 1-10
Replacement Procedure 1-12
Numeric Keypad 1-12
Removal Procedure 1-12
Replacement Procedure 1-14
Touch Pad 1-15
Removal Procedure 1-15
Replacement Procedure 1-15
Color Touch PC Box 1-16
PowerCom2 CT PC Box Removal 1-16
Installation Preparation 1-17
Installation Procedure 1-18
Auto Power Reset 1-18

Frames and Wireways 2-1
Introduction 2-1
Tools List 2-1

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Wireway Removal 2-1
CT PC Box Removal 2-1
9-drawer Carrier 2-5
OmniDispenser 2-7
Rail Frame 2-7
Ribbon Cable 2-9
Restock Door 2-13
Bottom Bayonet 2-14
3-drawer Carrier 2-15
Wireway 2-16

Shelves 3-1
Removal Procedure 3-1
Installation Procedure 3-3
Pull-out Shelf 3-5

Switchpanels 4-1
Introduction 4-1
Tools List 4-1
Removal Procedure 4-2
From a Shelf 4-2
From a Supply Drawer 4-3
From a Pull-out Shelf 4-4
From a Suture Rack 4-5
From a Catheter Rack 4-7

Doors 5-1
Introduction 5-1
Tools list 5-2
Removal Procedure 5-2
Installation Procedure 5-3

Locks and Latches 6-1
Introduction 6-1
Tools list 6-1
Removal Procedure 6-2
Wireway 6-2
Manual Override Cover 6-2

Drawers 7-1
Introduction 7-1
Tools List 7-1
Bin Configuration 7-2
Unlit Matrix Drawers 7-2
Lit Matrix Drawers 7-3
Labeling 7-4

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Installation Procedures 7-5
Supply Drawer 7-5
Double-Deep Drawer 7-5
Pharmacy Drawer 7-6
Three-Drawer Pharmacy Module 7-8
Configuration 7-14
Removal Procedure 7-15
Pharmacy Drawer 7-15
Resetting Drawer Addresses 7-17

Drawer Connect Board 8-1

Introduction 8-1
Tools List 8-1
Removal Procedure 8-1

Manual Override 9-1

Introduction 9-1
Tools List 9-1
Removal Procedure 9-1

Catheter Rack 10-1

Introduction 10-1
Tools List 10-1
Installation Procedure 10-1
Configuration 10-2
Removal Procedure 10-2
Service Procedures 10-3
LED Panel 10-3
Front Plate 10-4
Switchpanel and Cable 10-5
LED Cable 10-6
Hooks 10-8
Rail Slide 10-8
SPC Board 10-8
SPC Cables 10-8

Suture Rack 11-1

Introduction 11-1
Tools List 11-1
Installation Procedure 11-1
Cabinet Preparation 11-1
Suture Rack Housing 11-1
Dividers 11-5
Color Coding 11-6

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Removal Procedure 11-7
LED plate 11-7
LED cable 11-7
SPC Board and Cable 11-8

Installing a G4 Console 12-1

Introduction 12-1
Tools Required. 12-1
Remove the CT PC Box 12-1
Prepare for Installation of the G4 Console 12-4
Install the Two-Piece Cover. 12-4
Add the Ribbon Cable 12-10
Connect the E-Box Battery. 12-12
Install the G4 Console 12-14
Insert the G4 Console into the Cabinet Frame 12-14
Close the G4 Console and Power on the Cabinet. 12-16

G4 PC Box Service 13-1

Remove the Electronics Tray from the CT PC Console 13-1
Install the E-Box onto the Console 13-5
Prepare PC Box Console with E-Box 13-8
Add Knock-out Safety Plate. 13-8
Add the Flex Lock or External Return Bin (Optional) 13-10
Remove and Replace the LCD Touch Screen 13-13
LCD Touch Screen Removal 13-13
LCD Touch Screen Replacement 13-17
Remove and Replace the Keyboard and Printer Panel 13-18
Keyboard and Printer Panel Removal 13-18
Keyboard and printer Panel Removal 13-27
Close the CT PC Console and Power on the Cabinet 13-27

E-Box Service Guide 14-1

Introduction 14-1
Tools Required. 14-1
Open the E-Box 14-1
Remove/Replace the Hard Drive 14-3
Remove the Hard Drive 14-3
Replace the Hard Drive 14-5
Remove/Replace the Fans 14-7
Remove the Fans 14-7
Replace the Fans 14-8
Remove/Replace the Battery 14-10
Replace the Battery 14-11

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Remove/Replace the Power Supply 14-12
Remove the Power Supply 14-12
Replace the Power Supply 14-15
Remove the wireless card 14-17
Replace the wireless card 14-18
Remove/Replace the Power Entry Module 14-19
Remove the Power Entry Module 14-19
Replace the Power Entry Module 14-20

Appendix A: Part List A-1

Index Index-1

Feedback Form Feedback-1

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CT PC Box Parts

Introduction

This section provides detailed instructions for the proper replacement of specific parts within the Color Touch PC Box (or CT PC Box) with the PowerCom3 board.

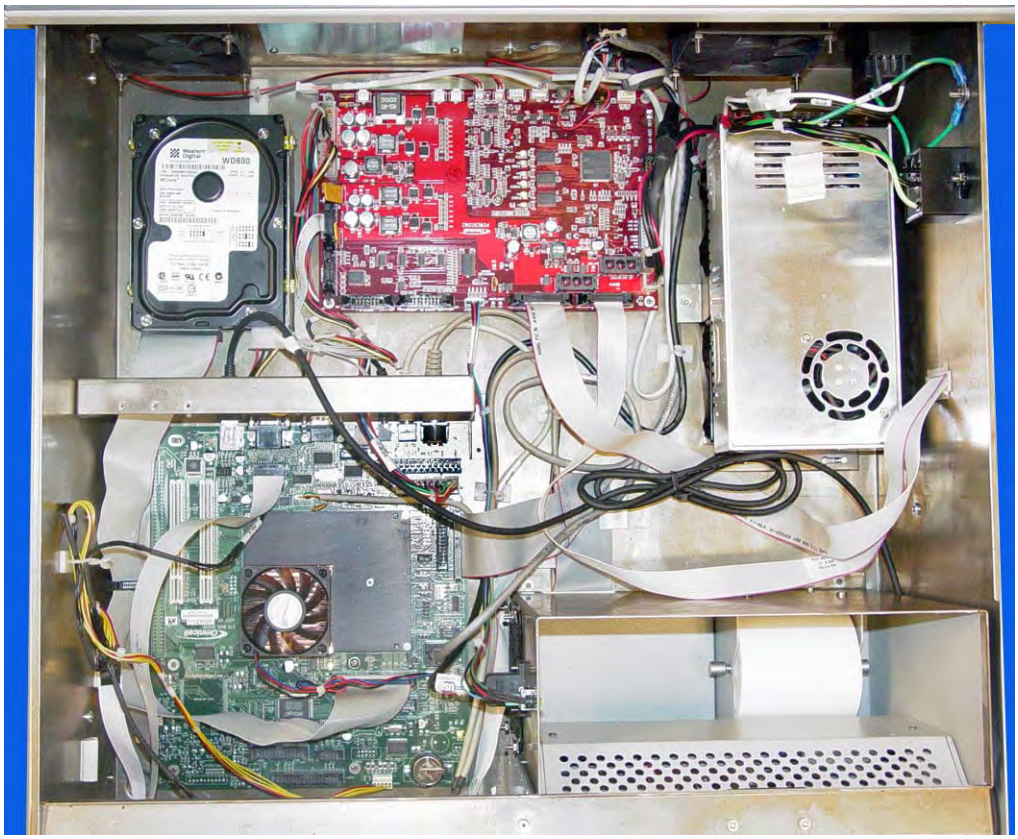

Figure 1-1. CT PC Box with a PowerCom3 board

Caution: The CT PC Box is heavy. Trying to lift or remove the box alone could result in injury. Use a second person to help lift and remove the CT PC Box from the OmniSupplier cabinet.

Tools List

The following tools are required to install the CT PC Box:

- T8 Torx Driver
- T10 Torx Driver
- T15 Torx Driver
- 9/64” Allen wrench

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Keyboard Door Bezel

Removal Procedure

1. Perform a graceful shut down of the cabinet.
2. Unplug the cabinet power cable from the outlet.
3. Open the keyboard door.
4. Remove the two 4-40 x 3/8 SHC screws from the keyboard cable cover.

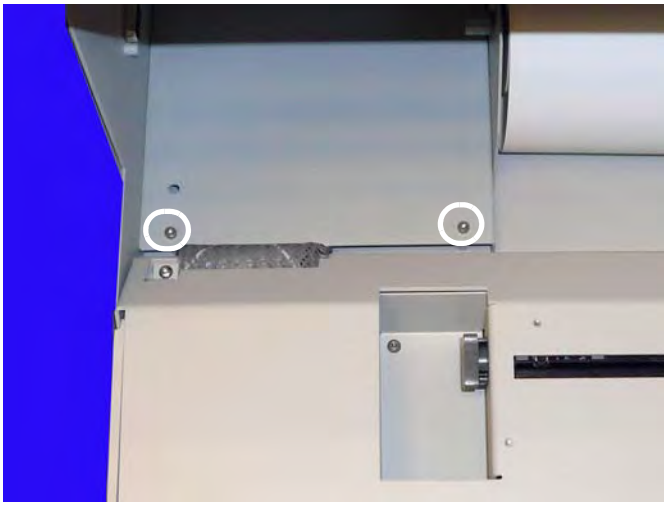

Figure 1-2. Remove the screws from the keyboard cable cover

5. Lift up the keyboard cable cover and remove it.

Note: The cover is held to the back of the keyboard door enclosure by two tabs that slide into slots in the back of the cover. To remove, lift the front of the cover until the tabs are free from the cover slots and remove.

6. Remove the four 4-40 x 3/8 buttonhead screws that secure the rear keyboard door.

Figure 1-3. Remove the four screws securing the rear keyboard door

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Important: Once the four screws are removed, the door bezel is only connected to the CT PC Box by a few cables. Be sure to hold the door bezel with one hand while removing the screws or the door bezel may become damaged.

7. Pull apart the rear keyboard door cover and the keyboard bezel.
8. Lock the door bracket in the lock position on the latch.
9. Disconnect the 5-pin, 12-pin and speaker cable connectors.

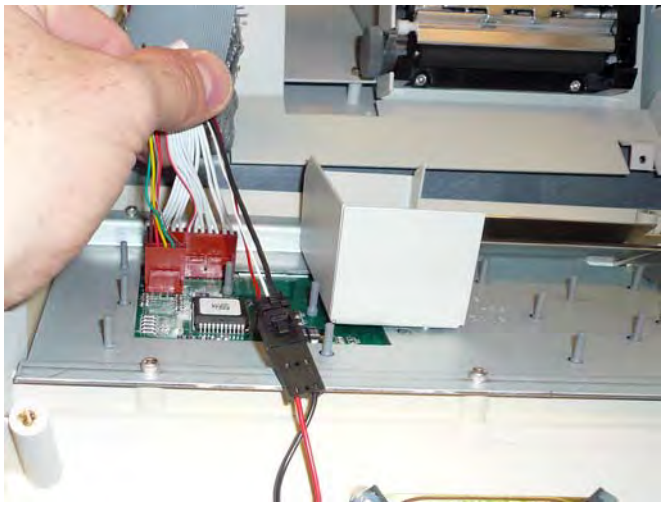

Figure 1-4. Disconnect the 5-pin, 12-pin and speaker cable connectors.

10. Remove the keyboard door.

Replacement Procedure

Important: Until the door bezel is securely fastened to the rear door cover, please do not let go of the door bezel at any time.

1. Replace the keyboard door bezel. Ensure that the U-shaped cutouts align with the hinges that secure the rear door bezel.
2. Connect the 12-pin printer cable, the 5-pin cable, and speaker cable to the door bezel.
3. Pull the rear keyboard door off the latch and line up the rear door with the keyboard door bezel.
4. Replace the four 4-40 x 3/8 buttonhead screws.

Note: Ensure that the cables are lying flat within the plastic sheath and then replace the keyboard cable cover into the slots on the back of the enclosure.

5. Replace the two 4-40 x 3/8 SHC screws.
6. Close the keyboard door.

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Keyboard

Removal Procedure

1. Perform a graceful shutdown of the cabinet.
2. Remove the keyboard Door Bezel. See "Removal Procedure" on page 1-2.
3. Remove the six screws from the keyboard bracket using a Torx T10 screwdriver.

Figure 1-5. Remove the six screws that secure the keyboard bracket

4. Remove the bracket.

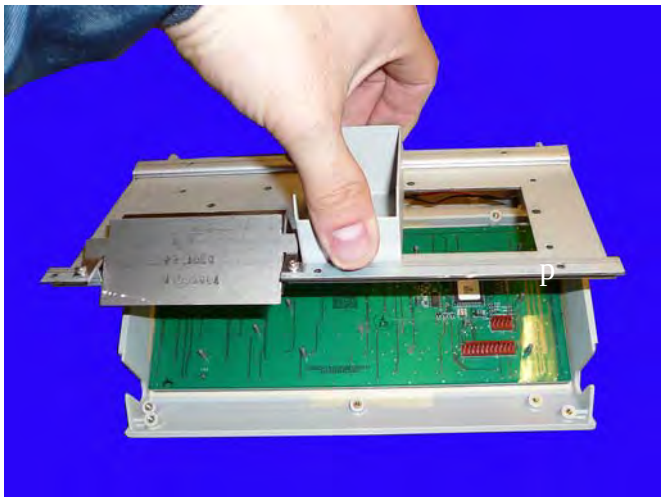

Figure 1-6. Remove the keyboard bracket

5. Remove the keyboard.

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Replacement Procedure

1. Place the keyboard into position on the bezel.
2. Place the bracket into position on the bezel.
3. Secure the bracket with the six screws.
4. Replace the keyboard door bezel to the CT PC Box. See "Replacement Procedure" on page 1-3.

Speaker

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Remove the keyboard Door Bezel. See "Removal Procedure" on page 1-2.
3. Remove the four flat nuts and remove the speaker.

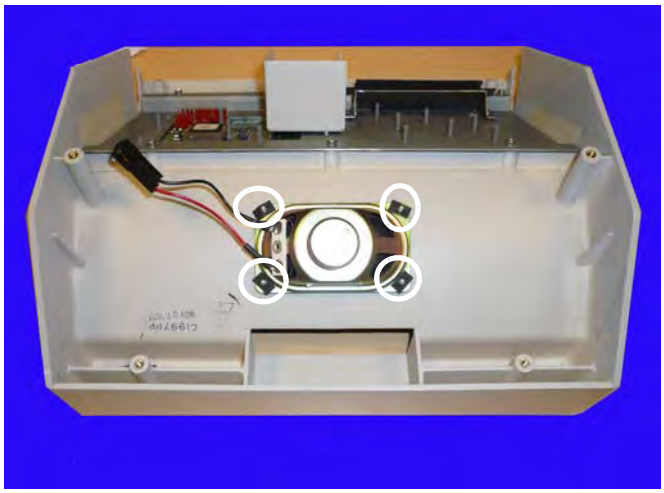

Figure 1-7. Remove the four flat nuts

Replacement Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Remove the keyboard door bezel. See "Removal Procedure" on page 1-2.
3. If the speaker is still attached, remove the four flat nuts and remove the speaker.
4. Place the new speaker on the plastic pegs and secure the speaker with four new flat nuts.
5. Hot-glue the flat nuts into place.
6. Replace the keyboard door bezel. See "Replacement Procedure" on page 1-3.
7. Plug in the cabinet power cable.
8. Power up the cabinet and check the speaker to ensure that it is working.

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LCD Bezel Assembly

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Unplug the cabinet power cable from the outlet.
3. Remove the screws that secures the CT PC Box to the cabinet.

   Pharmacy cabinets PC box screws are accessed by opening the keyboard door and using the T15 Torx driver. [6-32x1/4 BH screws]

   Supply cabinet PC box screws are accessed under the box at the front corners, using a T-10 Torx driver. [8-32x3/8 SHC screws]
4. Pull the CT PC Box forward about halfway out of the cabinet.
5. Use the #2036 key to unlock the top cover of the CT PC Box.

Figure 1-8. Use the 2036 key to unlock the CT PC Box cover

6. Remove the cover.
7. Disconnect the following cables from inside the CT PC Box:
   - → Inverter cable from J3
   - → The 24-pin keyboard harness assembly from the numeric keypad
   - → LCD data cable
   - → Touch screen data cable

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Figure 1-9. Disconnect the LCD data cable and inverter cable

Figure 1-10. Disconnect the 24-pin keyboard harness assembly

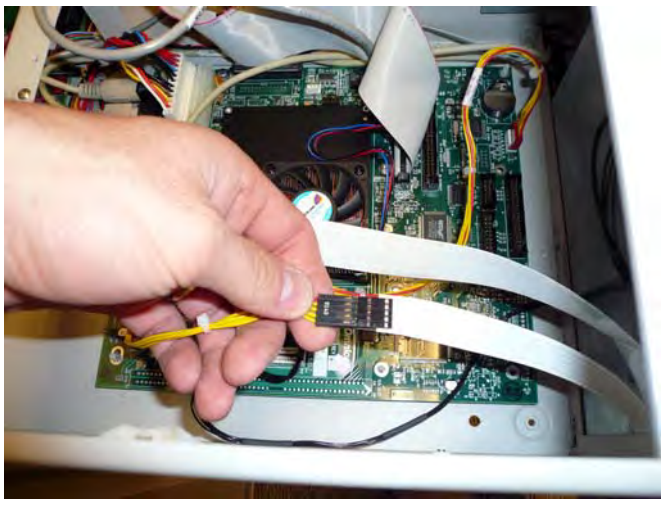

Figure 1-11. Disconnect the touch screen data cable

8. Remove the 6-32 x 3/16" flathead screw securing the bezel to the CT PC Box frame using a T10 Torx driver.
9. Remove the three 4-40 x 3/16 screws using a 9/64" Allen wrench, then remove the LCD bezel assembly.

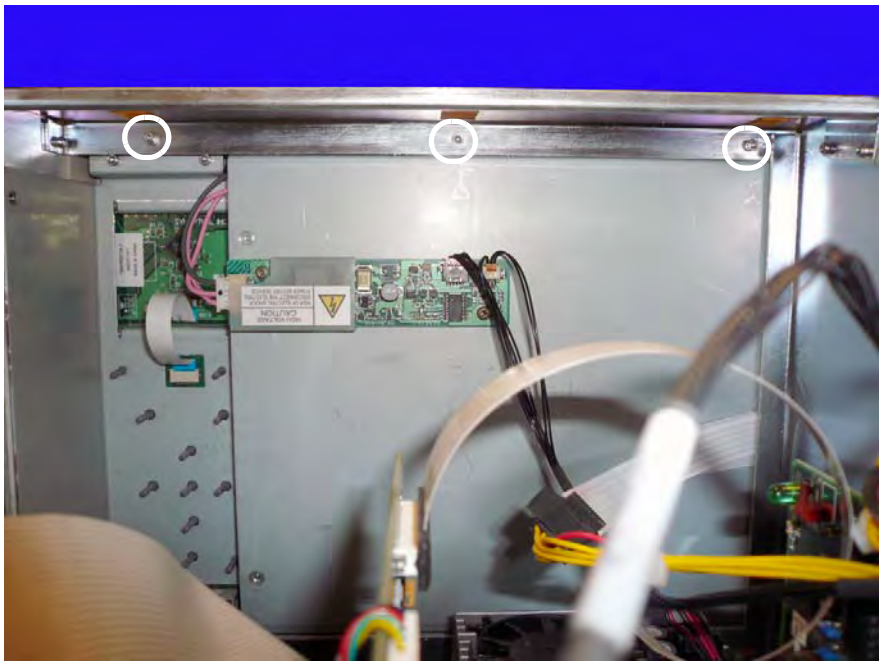

Figure 1-12. Remove the three screws securing the bezel to the CT PC Box frame

10. Slide the LCD bezel assembly to the left; remove the standoffs from the keyholes and pull the LCD bezel away from the frame.

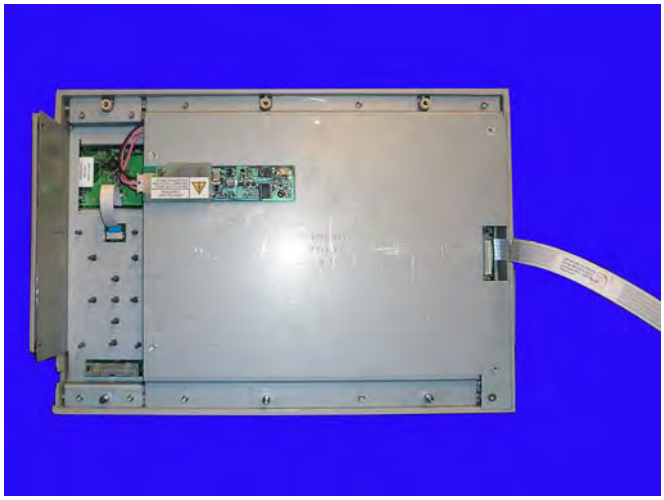

Figure 1-13. Remove the LCD bezel assembly from the CT PC Box

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Replacement Procedure

1. Place the standoffs on the bottom of the LCD bezel into the keyholes on the frame, then slide the LCD bezel to the right.
2. Replace the three 4-40 x 3/16 screws that secure the bezel to the top of the frame.
3. Replace the screw on the side of the frame.
4. Connect the following cables:
   - → Inverter cable from J3 (back light for LCD)
   - → The 24-pin keyboard harness assembly from bottom connector on the numeric pad bracket
   - → LCD data cable
   - → Touch screen data cable from the touch screen.

LCD Data Cable

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Unplug the power cord and all data cables from the rear of the box.
3. Remove the LCD bezel assembly. See "Removal Procedure" on page 1-6.
4. Remove the LCD data cable from the rear of the bezel assembly and from J1 on the motherboard.

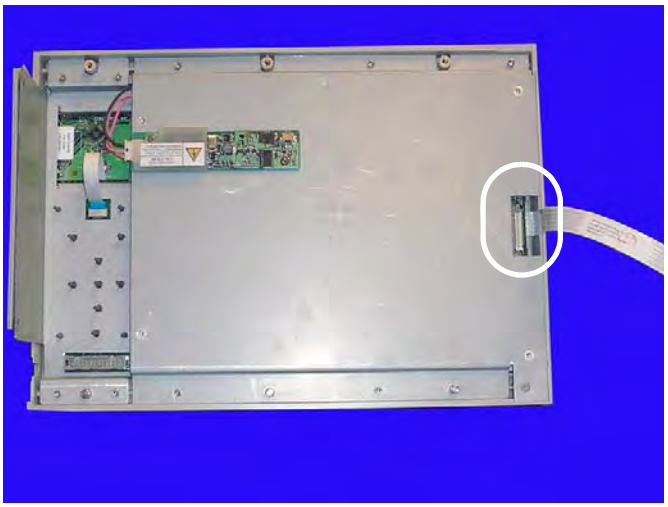

Figure 1-14. Remove the LCD data cable

Replacement Procedure

1. Attach the LCD data cable to the rear of the bezel assembly and to J1 on the motherboard.
2. Replace the LCD bezel assembly onto the frame.

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LCD Display and Touch Screen Glass

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Unplug the power cord and all data cables from the rear of the box.
3. Remove the LCD Bezel Assembly. See "Removal Procedure" on page 1-6.
4. Remove the five 4-40 x 3/16 SHC screws from the rear of the assembly to remove the LCD bracket from the LCD bezel assembly.

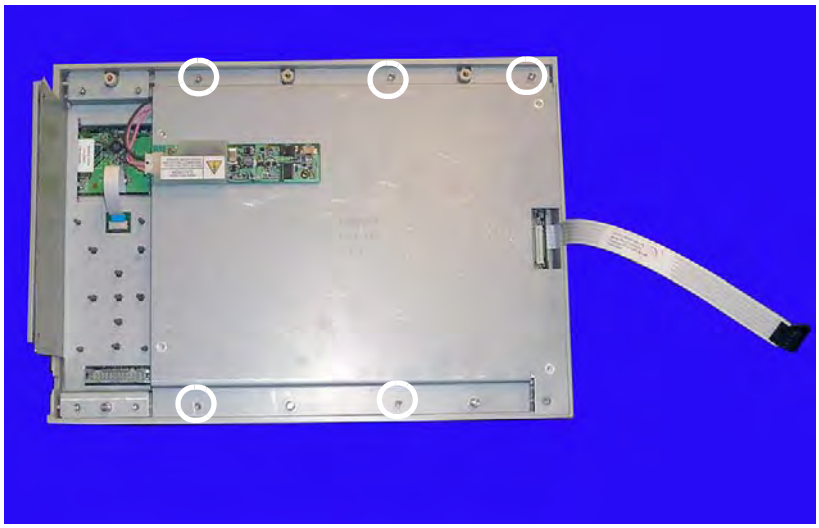

Figure 1-15. Remove the five SHC screws

5. Remove the 4-40 x 1/4 flathead screw in the lower right corner.

Figure 1-16. Remove the flathead screw in the lower right corner

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6. Turn the LCD assembly screen-side up and remove the four 4-40 x 1/4 buttonhead screws with a T8 Torx driver.

Figure 1-17. Remove the four screws from the front of the bezel assembly

7. Disconnect the LCD data cable from the board on the assembly bezel.

Figure 1-18. Disconnect the LCD screen cable

8. Remove the LCD display.
9. Remove the touch screen glass and set it aside.

Important: Do not touch the inner surface of the touch screen glass as this could prevent the touch screen from working properly when re-installed.

Carefully pick up the touch screen glass by the sides when moving it.

Replacement Procedure

1. Place the touch screen glass onto the bracket.

Important: Do not touch the inner surface of the touch screen glass as this could prevent the touch screen from working properly when re-installed.

Carefully pick up the touch screen glass by the sides when moving it.

2. Connect the LCD screen cable to the board on the assembly bezel.
3. Place the new LCD display onto the bracket, ensuring that the connector on the LCD display fits into the cut-out on the bracket.
4. Replace the four 4-40 x 1/4 buttonhead screws to secure the display onto the bracket.
5. Peel off the protective covering on the front of the display.

Note: Ensure that the display remains free of fingerprints, dust and debris during replacement.

6. Replace the five 4-40 x 1/4 SCH screws that secure the LCD bracket assembly to the bezel.
7. Replace the 4-40 x 1/4 flathead screw.

Numeric Keypad

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Remove the LCD Bezel Assembly. See "Removal Procedure" on page 1-6.
3. Remove the LCD display and touch screen glass. See "Removal Procedure" on page 1-10.

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4. Disconnect the flex cable from the connector on the numeric keypad.

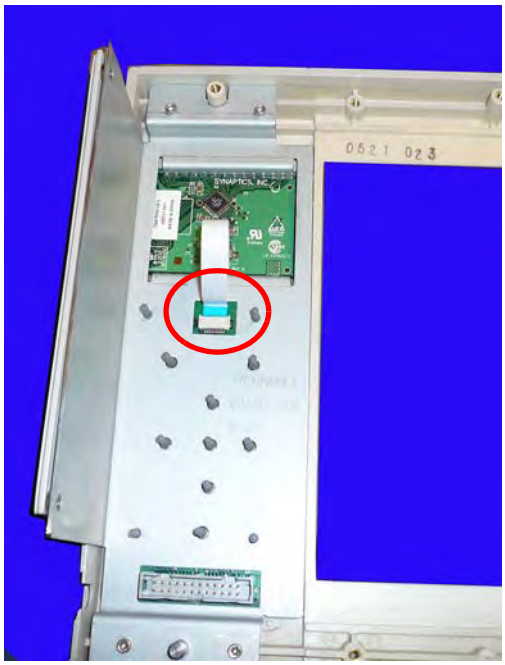

Figure 1-19. Remove the flex cable

5. Remove the four 4-40 x 1/4 SHC screws to remove the keyboard bracket from the bezel.

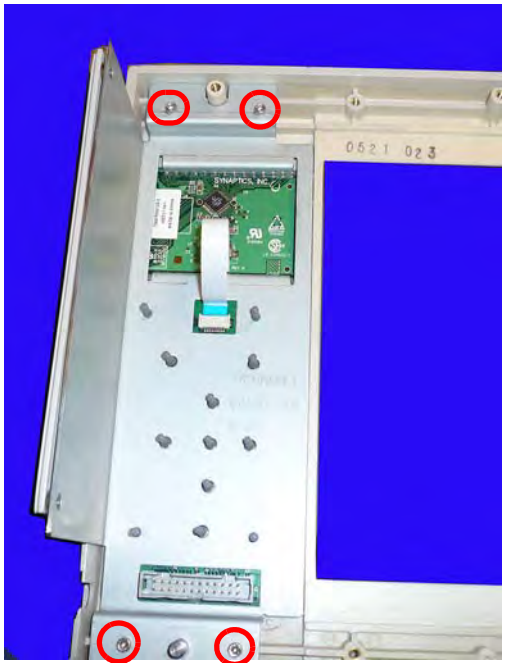

Figure 1-20. Remove the four screws

6. Remove the numeric keyboard.

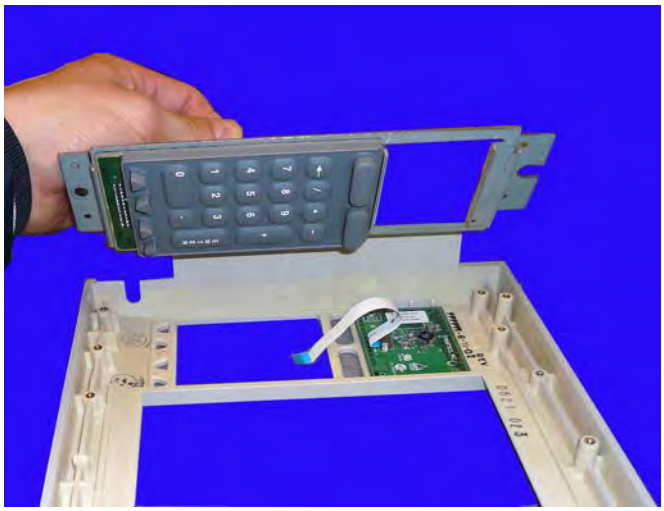

Figure 1-21. Remove the keypad

Replacement Procedure

1. Place the numeric keypad face down in the rectangular cutout of the LCD bezel. Ensure that the keypad is oriented correctly on the bezel before continuing.
2. Place the keyboard bracket on top of the keyboard and touch pad.
3. Align the beads of the numeric keypad in the holes on the bracket and firmly pull on the four corner beads to ensure that the keypad is securely fastened to the bracket.
4. Connect the flex cable to the numeric keyboard.
5. Replace the four 4-40 x 1/4 SCH screws that secure the numeric keyboard bracket to the LCD display bezel.
6. Replace the 4-40 x 1/4 flathead screw.
7. Replace the five 4-40 x 1/4 SHC screws from the rear of the assembly to secure the LCD bracket to the LCD bezel assembly.
8. Replace the LCD bezel.

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Touch Pad

Removal Procedure

1. Perform a graceful shut down of the CT PC Box.
2. Remove the LCD Bezel Assembly. See "Removal Procedure" on page 1-6.
3. Remove the LCD display and touch screen glass. See "Removal Procedure" on page 1-10.
4. Remove the Numeric Keypad. See "Removal Procedure" on page 1-12.
5. Remove the touch pad and flex cable from the bezel.

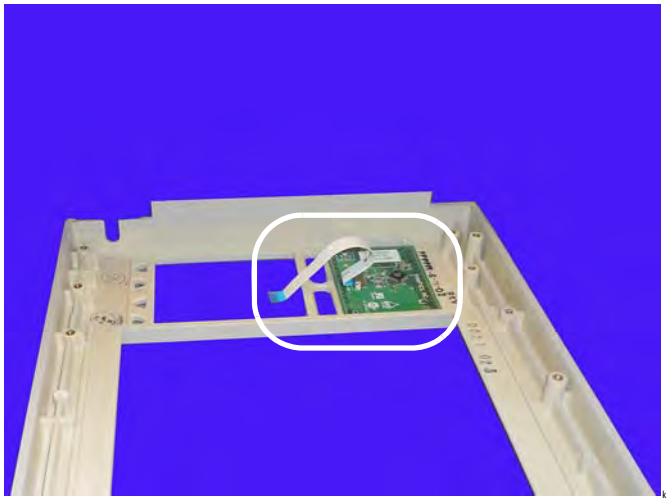

Figure 1-22. Remove the touch pad and flat flex cable.

6. Disconnect the flex cable from the touch pad, if necessary.

Replacement Procedure

Note: If a new flex cable is being installed, be sure to bend the blue tabs on both ends of the cable.

1. Connect the flex cable to the touch pad and place the assembly into the bezel. Ensure that the touch pad goes into the bezel with the flex cable closer to the keyboard.
2. Connect the other end of the flex cable to the keyboard.

Important: Verify the cable is not twisted between connector points.

3. Replace the Numeric Keypad. See "Replacement Procedure" on page 1-14.
4. Replace the touch screen glass and LCD display. See "Replacement Procedure" on page 1-12.
5. Replace the LCD bezel assembly. See "Replacement Procedure" on page 1-9.

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Color Touch PC Box

PowerCom2 CT PC Box Removal

Prior to swapping out the PowerCom2 CT PC Box, establish a process for supply/medication removal so the nurses can track transactions while the system is down. (Example forms are located in the Implementation Guide.)

1. Perform a graceful shutdown of the cabinet software, then power down the cabinet and disconnect the machine from the wall outlet.
2. Disconnect the LAN cable and the AUX cables from the rear of the CT PC Box.

Figure 1-23. Location and labels for LAN and AUX cable connections on CT PC Box

3. Remove the CT PC Box.
   a. Pull open the keyboard door to access the screws fastening the CT PC Box to the frame.
   b. Remove the buttonhead 8-32 x 7/8" and 8-32 x 3/8" screws.
   c. Slowly pull the CT PC Box from the frame until the side-mounted slides lock and stop.
   d. Unlock the CT PC Box cover with the cam lock key #2036.
   e. Remove the cover by lifting the front end and pulling away from the cabinet.
   f. Disconnect the SPC cables from the PowerCom2 board. Remove the cables from underneath the power supply and out of the sheet metal enclosure.
   g. Tuck the SPC cables - still connected to the wireway - under the transport handle on the side of the OmniSupplier frame.
   h. Release the CT PC Box from the slides, carefully remove it from the cabinet and set it on a flat surface.

Caution: The CT PC Box is heavy. Trying to lift or remove the box alone could result in injury. Use a second person to help lift and remove the CT PC Box from the OmniSupplier cabinet.

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4. Prepare the PowerCom2 CT PC Box for return.
   a. Unplug the battery from J5 on the PowerCom2 board.

      National Transportation Safety Board (NTSB) regulations prohibit an uninterrupted power supply (UPS) from being connected during transport.

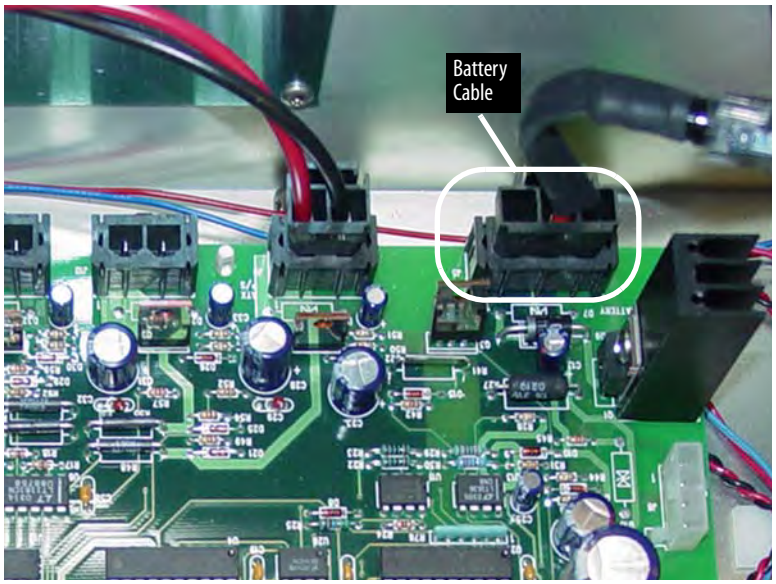

Figure 1-24. Location of battery cable on motherboard of PowerCom2 CT PC Box

   b. Replace and lock the top cover.
   c. Once the PowerCom3 CT PC Box has been removed from the shipping box and installed in the cabinet, place the PowerCom2 CT PC Box in the shipping box and secure it for return.

Installation Preparation

The PowerCom3 CT PC box is lighter than the PowerCom2 box and does not require two people for installation and/or removal.

Note: Follow ESD safety procedures. Always wear an ESD strap when working with electronic components.

1. Unlock the PowerCom3 CT PC Box top cover with the cam lock key #2036.
2. Lift the front cover and slide it forward to remove.

3. Locate the cable to the battery and insert the connector into the PowerCom3 board at J2.

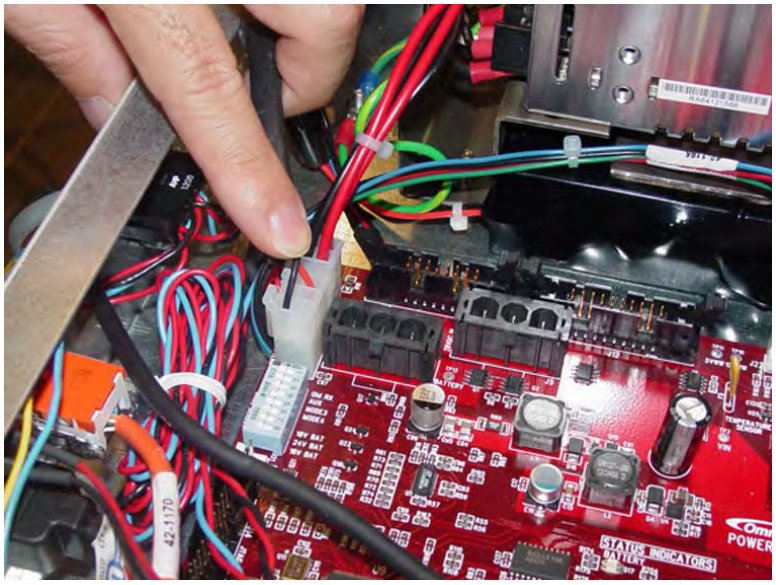

Figure 1-25. Connect the Battery Cable to J2 of the PowerCom3 Board

Installation Procedure

1. Remove the PowerCom3 CT PC Box from the shipping box and lift it onto the rail slides of the cabinet. Do not slide the CT PC Box completely into the cabinet.
2. Thread the SPC cable into the CT PC Box and connect it to J12 and J13 of PowerCom3 board.
3. Replace the cover and lock it using the cam lock key #2036.
4. Slide the CT PC Box completely into the cabinet.
5. Pull open the keyboard door to access the screws fastening the CT PC Box to the frame.
6. Replace the buttonhead 8-32 x 7/8” and buttonhead 8-32 x 3/8” screws.

Auto Power Reset

When a power outage occurs, the power switch on the back of the PC box must be pushed to turn the unit back on. In a hospital with multiple auxiliary cabinets, this is an unmanageable situation.

To solve the problem, change the dip-switch setting on the internal power/communication board so the unit automatically turns on when the power is restored. The new settings should be a production default in the future.

Caution: Cabinets that have the new dip switch settings must be unplugged before doing maintenance as the power switch will no longer turn off the power. A warning sticker for this situation should be placed on the cabinet in manufacturing.

1. Open the PC box.
2. Change dip switches 1 and 2 on the power/communication board to **On**.
3. Close the PC box.

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4. Apply label 65-8035 near the power switch to indicate that the unit has been modified. The label warns: to turn the unit off, the power cord needs to be unplugged from the wall AC outlet.

Note: If power problems continue to occur, these cabinets should be placed on an external UPS unit.

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Frames and Wireways

Introduction

The 1-, 2-, 3-Cell OmniSupplier cabinet has a metal frame which houses the switchpanel control boards (SPC boards) and many of the cables that connect the components of the system. The frame is not field repairable and must be replaced if it is damaged. The wireway on the right side of any cabinet in a 1-, 2-, or 3-cell OmniSupplier is removable and the SPC boards contained on the wireways are also replaceable.

In the following procedure, references are made to removing specific modules such as the 9-drawer carrier and the OmniDispenser. These portions of the procedure are not intended to show how to completely remove a particular module, but to show the least amount of work that is required to get the wireway free from the cabinet frame.

This chapter provides removal procedures. Installation can be done by performing the appropriate removal procedure in reverse order.

Tools List

The following tools are required to perform the procedures in this chapter:

- Torx T8 driver
- Torx T10 driver
- Torx T15 driver
- 9/64” Allen wrench

Wireway Removal

CT PC Box Removal

1. Perform a graceful shutdown of the cabinet.
2. Unplug the cabinet power cord from the outlet.
3. Unlock the cabinet doors using the #2036 key.
4. Remove the screws that secures the CT PC Box to the cabinet.

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Pharmacy cabinets PC box screws are accessed by opening the keyboard door and using the T15 Torx driver. [6-32x1/4 BH screws]

Figure 2-1. Pharmacy cabinet

Supply cabinets PC box screws are accessed under the box at the front corners, using a T-10 Torx driver. [8-32x3/8 SHC screws]

Figure 2-2. Supply cabinet

a. Slowly pull the CT PC Box from the frame until the side-mounted slides lock and stop.

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b. Unlock the CT PC Box cover with the cam lock key #2036.

Figure 2-3. Unlock the CTPC Box Cover

c. Remove the cover by lifting the front end and pulling away from the cabinet.

d. Disconnect the SPC cables from the PowerCom board.

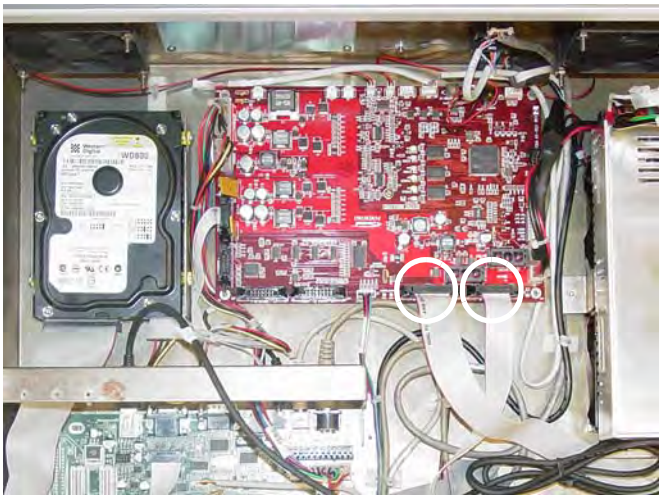

Figure 2-4. Disconnect the SPC Cables

e. Pull the SPC cables through the wireway slot on the right side of the CT PC box and remove the SPC cables from the CT PC Box.

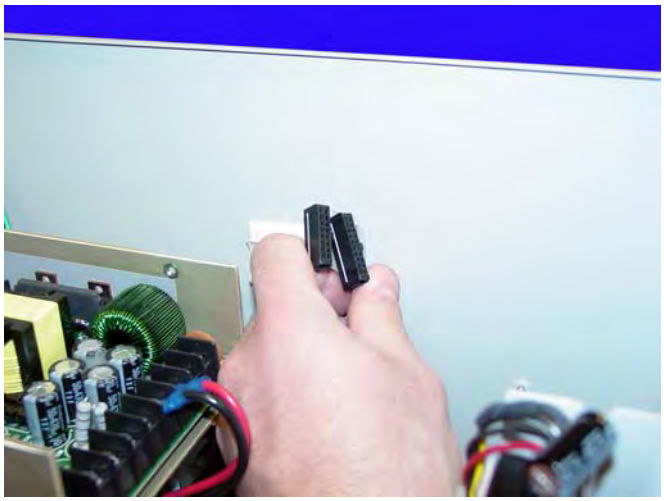

Figure 2-5. Remove the SPC cables

f. Tuck the SPC cables - still connected to the wireway - under the transport handle on the side of the OmniSupplier frame.

g. Release the CT PC Box from the slides, carefully remove it from the cabinet and set it on a flat surface.

Caution: The CT PC Box is heavy. Trying to lift or remove the box alone could result in injury. Get help from a second person to lift and remove the CT PC Box from the cabinet.

Important: The following sections cover optional equipment that may be present on any given cabinet that must be removed to access the wireway cables. A pharmacist must be present when servicing drawers with medications.

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9-drawer Carrier

1. Unlock the two locks on the 9-drawer carrier manual override cover, then remove the cover.

Figure 2-6. Unlock and Remove the Manual Override Cover

2. Pull the pharmacy drawer in position two (second drawer from the top) forward to expose the pharmacy drawer controller cable cover.
3. Remove the two screws securing each controller cable cover using a T10 Torx screwdriver.

Figure 2-7. Remove the screws securing the controller cable cover

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4. Remove the controller cable cover and disconnect the controller cable from the drawer.

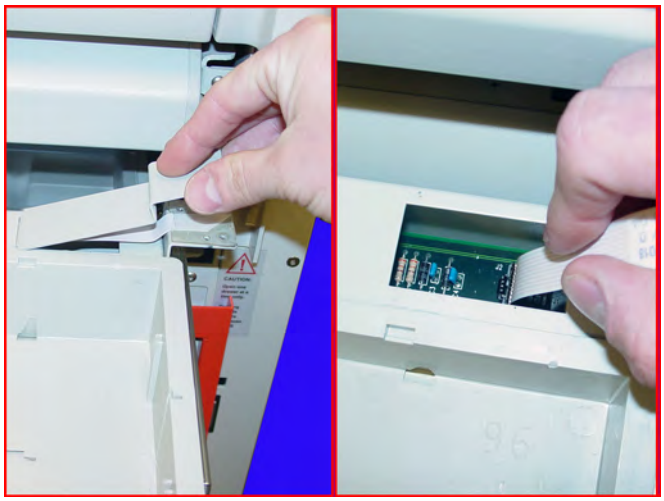

Figure 2-8. Remove the controller cable cover; Disconnect the controller cable

5. Remove the drawer from the frame by pressing the drawer releases on each drawer slide.
6. Repeat steps 3-5 for drawers in positions seven, eight and nine.
7. Remove the two screws securing the large manual override lever using a T15 Torx screwdriver.

Figure 2-9. Remove the screws securing the manual override lever

8. Remove the lever.
9. Remove the two screws securing each of the four slide support brackets using a Torx T15 screwdriver.
10. Remove the slide support brackets.
11. Remove the three wireway cables located on the inner side of the slide support brackets. The cables are located underneath drawers #2, 7 and 9.

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OmniDispenser

1. Unlock the two locks on the manual override cover, then remove the cover from the OmniDispenser.

Figure 2-10. Unlock and Remove the Manual Override Cover

2. Pull the manual override lever and open the restock door.

Rail Frame

1. Pull the rail frame out until it is fully extended.
2. Remove the two screws securing the rail cable bracket.

Figure 2-11. Remove the two screws securing the rail cable bracket

3. Loosen the screw securing the rail cable bracket to the rail frame.

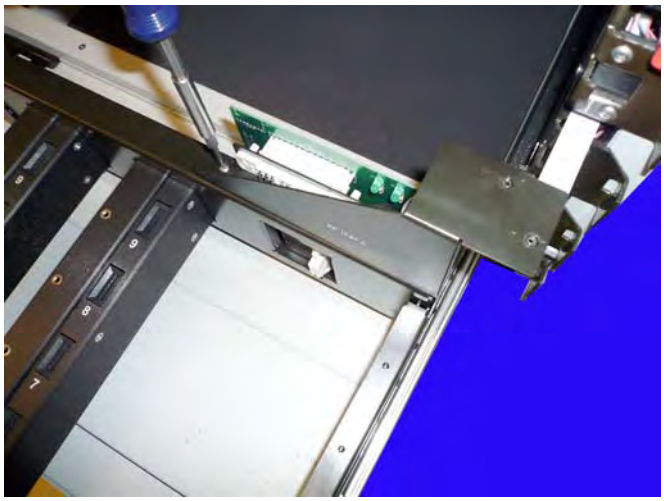

Figure 2-12. Loosen the screw securing the rail cable bracket to the rail frame

4. Remove the rail cable bracket.
5. Disconnect the rail cable from P1 on the rail controller board.

Figure 2-13. Disconnect the cable from P1 on the rail controller board

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6. Remove the rail frame from the OmniDispenser.

Figure 2-14. Remove the rail frame from the OmniDispenser

Ribbon Cable

1. Remove the four screws, two on each side, that secure the top tray to the frame.

Figure 2-15. Remove the four screws securing the top tray to the frame.

2. Pull the top tray out far enough to reach the ribbon cable.

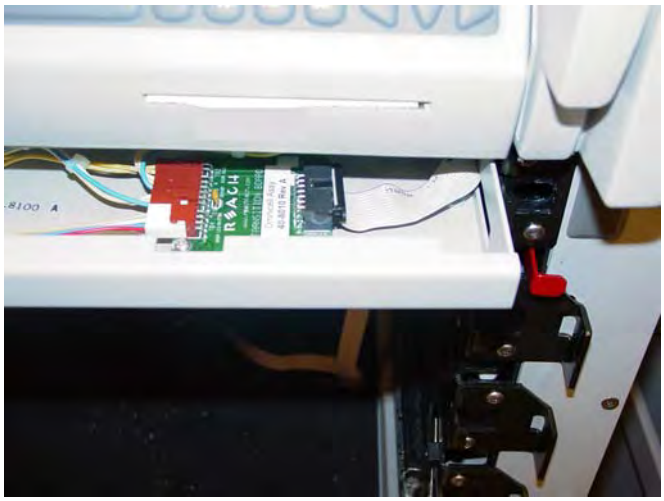

Figure 2-16. Pull out the top tray

3. Disconnect the ribbon cable from the reach board and pull the ribbon cable through the opening on the right side of the tray.

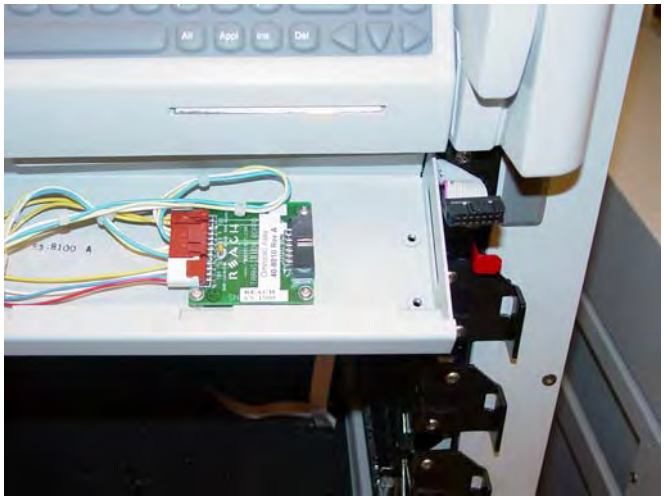

Figure 2-17. Remove the ribbon cable from the slot on the right side of the tray.

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4. Remove the six screws securing the plate to the top bayonet on the right side of the frame.

Figure 2-18. Remove the screws securing the plate to the top bayonet

5. Remove the four screws that secure the top bayonet.

Figure 2-19. Remove the four screws that secure the top bayonet

6. Move the top bayonet slightly and disconnect the ribbon cable from the wireway.

Note: Do not attempt to remove the top bayonet from the frame. The manual override cables are attached to the bayonet and removing the top bayonet will disable the functionality of the manual override.

7. Place one screw back in the top bayonet to secure the bayonet to the frame.

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8. Remove the two screws that secure the second bayonet to the frame.

Figure 2-20. Remove the two screws securing the second bayonet from the top to the frame

9. Remove the second bayonet from the frame and disconnect the ribbon cable.

Figure 2-21. Remove the second bayonet and disconnect the ribbon cable

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Restock Door

1. Remove the two Phillips head screws securing the trunnion bars to the module frame.

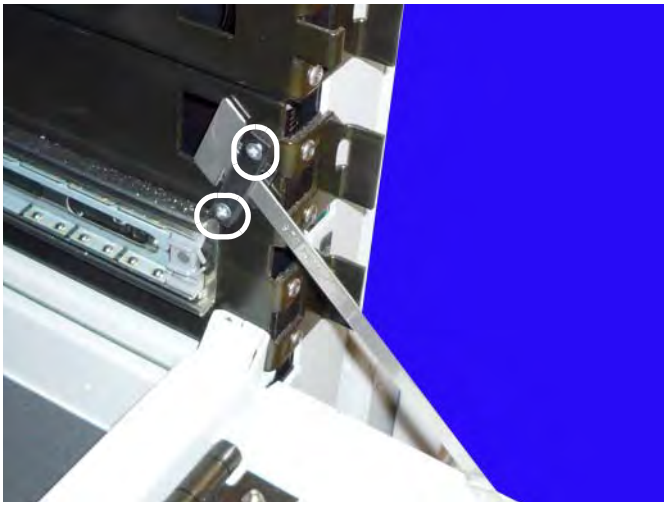

Figure 2-22. Remove the screws securing the trunnion bars to the module frame

2. Remove the three screws securing the fix inhibitor bracket.

Figure 2-23. Remove the three screws securing the fix inhibitor bracket

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3. Remove the two screws securing each side of the bottom bracket to the frame.

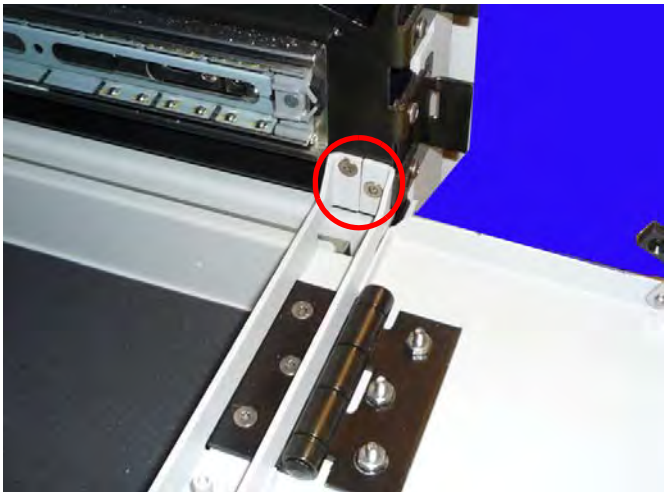

Figure 2-24. Remove the screws securing the bottom bracket

4. Remove the door.

Bottom Bayonet

1. Remove the four screws that secure the bottom bayonet to the frame.

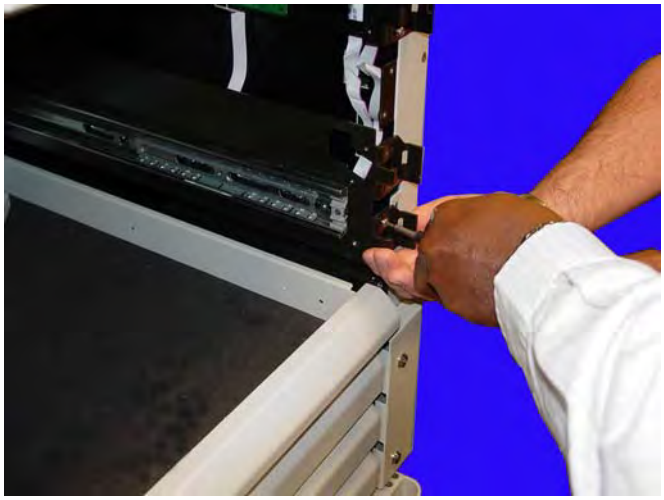

Figure 2-25. Remove the bottom bayonet screws

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2. Remove the bottom bayonet.

Figure 2-26. Remove the bottom bayonet from the frame

3. Disconnect the ribbon cables from the wireway.

Figure 2-27. Disconnect the ribbon cables from the wireway

3-drawer Carrier

The removal procedure for the 3-drawer carrier is similar to the 9-drawer carrier.

Wireway

1. Remove the four screws - two screws on the top of the wireway and the two screws asymmetrically placed near the center of the wireway using a T15 Torx screwdriver.

Figure 2-28. Remove the Screws Securing the Wireway

2. Pull the wireway slightly forward and disconnect the overhead communications cable.

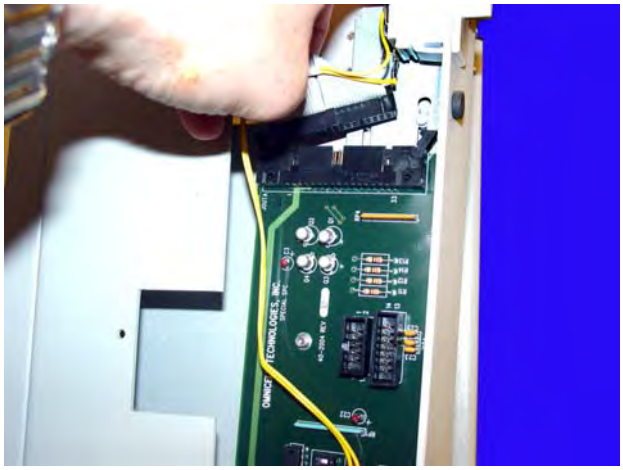

Figure 2-29. Disconnect the Overhead Communications Cable

3. Remove the wireway.

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Shelves

Removal Procedure

1. Lift the shelf clips on either side of the switchpanel and open the clips.

Figure 3-1. Lift the Shelf Clips

2. Disconnect the switchpanel from the SPC board in the wireway.

Figure 3-2. Disconnect the Switchpanel from the SPC Board

3. Slide the switchpanel from its holder.

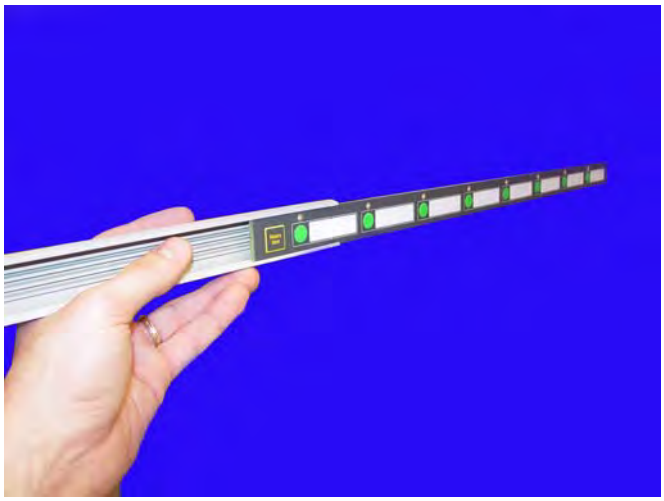

Figure 3-3. Remove the switchpanel from its holder

4. Push the shelf up from the slots in the shelf clips and remove the shelf.

Figure 3-4. Push the shelf up and remove

5. Remove the shelf clip if a new shelf will not be re-installed in the same location.

Note: In certain cases, the shelf clip may be secured with a single screw that provides extra support. Remove the screw using a Torx T15 screwdriver.

If a new shelf will not be re-installed in the location, be sure to cover the opening in the frame with a cover. The cover is mostly aesthetic, but will prevent loose objects from falling into the wireway.

6. Remove the dividers from the clips.

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7. Rotate the clips 90 degrees and unlock them from the bars on the shelf.

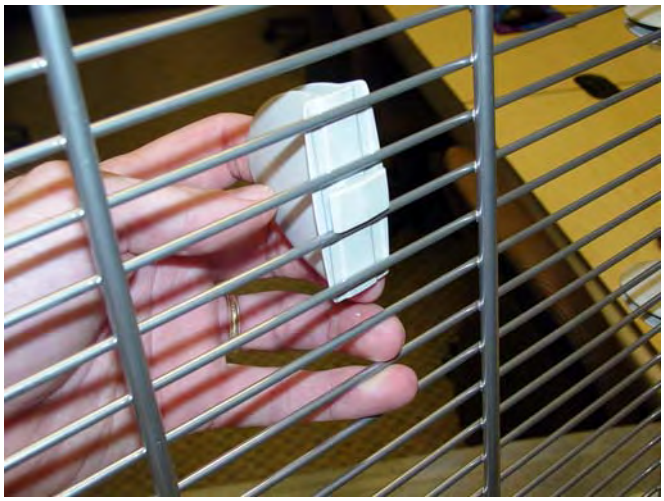

Figure 3-5. Remove the clip from the shelf

8. Remove the clips from the shelf.

Installation Procedure

1. Remove the switchpanel connector covers - one on each side - where the shelf will be installed.
2. Insert a shelf clip into the hole on the frame.
3. Slide the switchpanel into its holder.

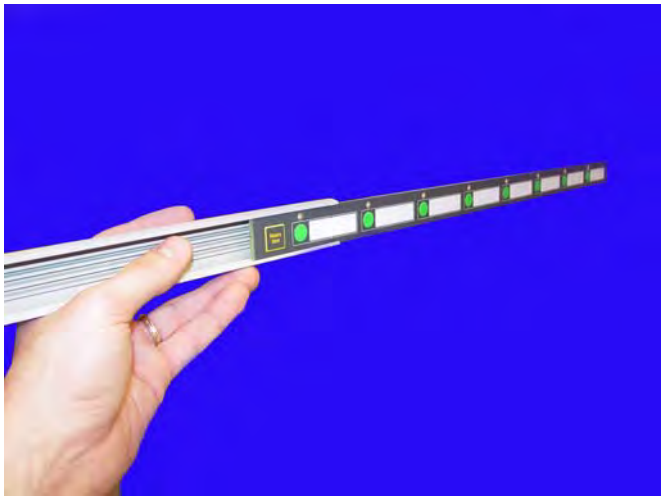

Figure 3-6. Slide the switchpanel into its holder

4. Lift up the tabs on the shelf clips.

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5. Connect the switchpanel to the SPC board in the wireway.

Figure 3-7. Connect the Switchpanel to the SPC Board

6. Insert the switchpanel and the holder into the shelf clips and close the clips.
7. Slide the shelf into the mounting slots at the back of the frame.

8. Lower the shelf into the shelf supports and ensure they are locked into place.
9. Place the clips on the shelf at the required position.

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10. Rotate the clips 90 degrees and lock them into place on the shelf.

Figure 3-8. Rotate the Shelf Clip and Lock it Into Place

11. Place the dividers into the clips.

Pull-out Shelf

A pull-out shelf is designed to increase the accessibility of items located at the rear of a cabinet shelf. The shelf is mounted on rails and can be pulled out from the cabinet. The pull-out shelf is a product option that must be purchased separately and does not come as a standard feature.

A pull-out shelf should never be installed in the top 1/3 of a cell

1. Perform a graceful shutdown of the CT PC box.
2. Open the door in the zone where the pull-out shelf will be located.
3. If a standard shelf already exists in the location planned for the pull-out shelf, remove the standard shelf first.
4. Insert the shelf assembly into the frame. Make sure that the tabs on the back of the assembly slide completely into the slots on the back of the frame.
5. Insert mounting screws, one on each side, using a Torx T15 screwdriver.
6. Connect the switchpanel cable to the wireway.
7. Replace the connector covers.

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Switchpanels

Introduction

Switchpanels are located in four places on Omnicell units: on a shelf, in a supply drawer or pull-out shelf, on a suture rack and on a catheter rack. The switchpanels, commonly referred to as button bars, are used to aid in the identification of specific items in a dispenser unit. When a user selects an item from the dispenser unit, the LEDs on the switchpanel light up and indicate the location of the product.

The switchpanels can be removed and relocated with the corresponding shelf, drawer or rack and can be re-used from one shelf to another similar shelf or from one drawer to another drawer. However, a switchpanel cannot be moved from a shelf to a catheter rack or from a drawer to a shelf. Each switchpanel is designed to work with one storage type only.

This chapter provides the removal procedure. Installation can be done by performing the removal procedure in reverse order.

Tools List

The following tools are required to remove or install a switchpanel:

- Torx T15 screwdriver
- Torx T8 screwdriver
- Needle-nosed pliers
- 1/4” nut driver
- 5/64” Allen wrench
- 3/32” Allen wrench
- Phillips head screwdriver
- 5/16” nut driver

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Removal Procedure

From a Shelf

1. Lift the shelf clips on either side of the switchpanel and open the clips.

Figure 4-1. Lift the Shelf Clips

2. Disconnect the switchpanel from the SPC board in the wireway.
3. Remove the switchpanel and its holder from the clips.
4. Slide the switchpanel from its holder.

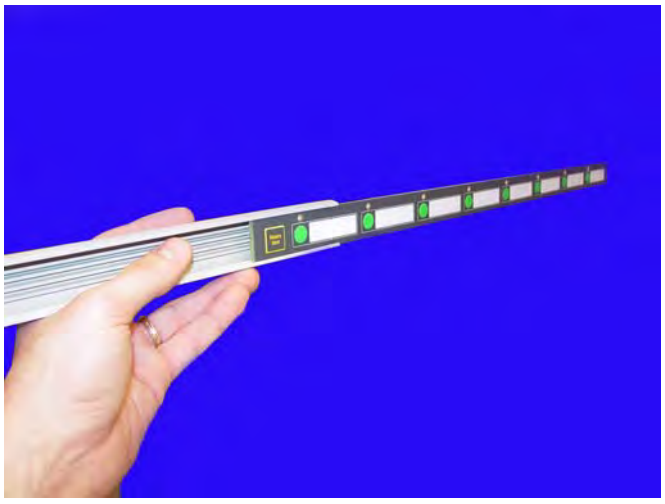

Figure 4-2. Remove the switchpanel from its holder

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From a Supply Drawer

1. Disconnect the drawer ribbon cable from the SPC board in the wireway.

Figure 4-3. Disconnect the ribbon cable from the SPC Board in the Wireway

Caution: If pliers are used to remove the drawer ribbon cable, ensure that the connection is removed slowly and that the pliers are pulling both the cable and the connection. If the connector on the end of the ribbon cable comes free from the ribbon cable, it might cause a short, damaging the wireway or the PowerCom board.

2. Remove the two screws on the bottom of the supply drawer using a T15 Torx screwdriver.

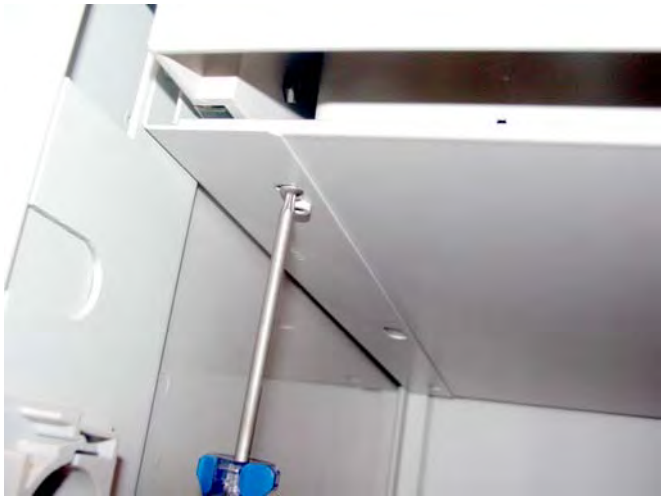

Figure 4-4. Remove the screws securing the drawer to the mounting bracket

Note: If the supply drawer is to be located directly above a pharmacy drawer, it is recommended that the screws be re-installed from above of the bracket.

3. Remove the supply drawer and its casing from the dispenser unit.

4. Turn the supply drawer upside down and open it.
5. Disconnect the switchpanel cable.
6. Remove the four nuts located on the drawer using a 1/4” nut driver.
7. Remove the switchpanel.

Figure 4-5. Remove the Switchpanel from the Drawer

From a Pull-out Shelf

1. Slide the shelf partially out of the dispenser unit.
2. Remove the four Allen Screws from the top of the switchpanel using a 5/64” Allen wrench.

Note: The switchpanel is still connected to the shelf. Do not try to forcibly remove the switchpanel.

3. Pull the left side of the switchpanel away from the shelf to expose the two screws securing the switchpanel to the right side of the frame.
4. Remove the two screws using a small Phillips head screwdriver.
5. Remove the switchpanel cable from the wireway cable.

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From a Suture Rack

1. Pull the suture rack's right-most rack forward, then disconnect the SPC board cable.

Figure 4-6. Remove the SPC board cable

2. Remove the two screws securing the rack to the housing using a 3/32" Allen wrench.

Figure 4-7. Remove the screws securing the suture rack to the housing.

3. Remove the suture rack from the L-brackets.
4. Open the suture rack and locate the LED cable.

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5. Disconnect the LED cable from the wireway connector.

Figure 4-8. Disconnect the LED cable

6. Remove the LED cable from the plastic routing clip.

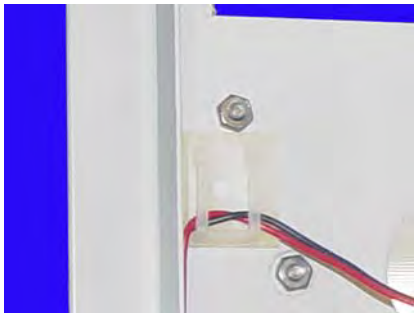

Figure 4-9. Remove the LED cable from the plastic routing clip

7. Remove the cable plate from the rear of the housing.

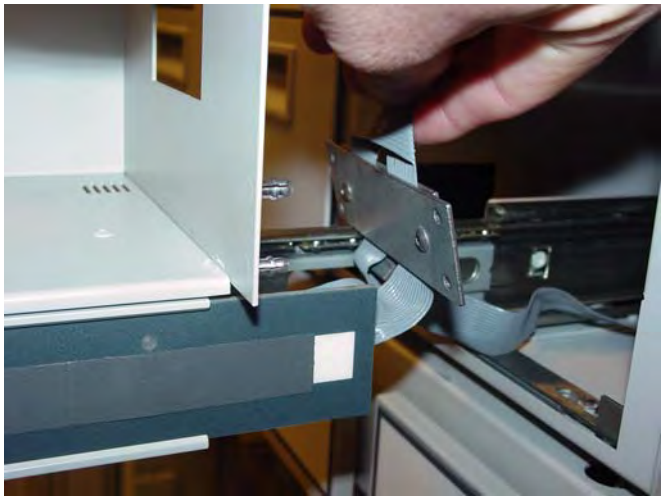

Figure 4-10. Disconnect the cable plate from the suture rack drawer

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8. Disconnect the switchpanel cable from the switchpanel.

Figure 4-11. Disconnect the Switchpanel Cable

9. Remove the switchpanel by sliding it out of the housing.
10. Disconnect the LED cable from the switchpanel by pressing the tab on the connector.

From a Catheter Rack

1. Pull the cath rack rail forward until it is fully extended.

Figure 4-12. Extend the cath rack rail until it locks into place

2. Remove the two nuts on either side of the front panel using a 5/16” nut driver.

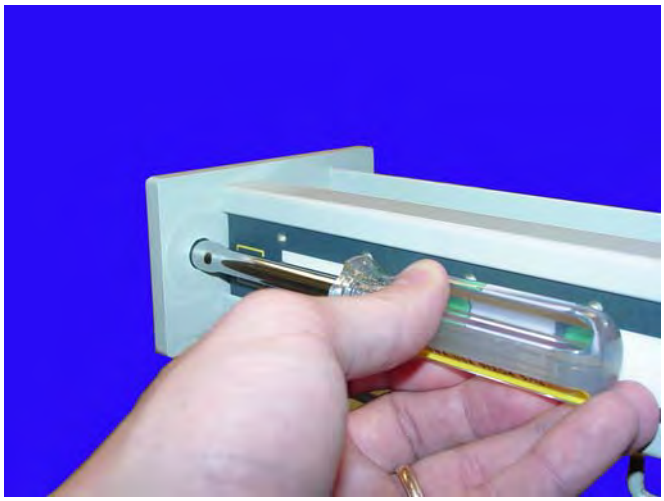

Figure 4-13. Remove the nuts securing the LED panel

3. Disconnect the LED cable from the LED panel.

Figure 4-14. Disconnect the LED cable

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4. Remove the two screws on the front plate handle.

Figure 4-15. Remove the two screws on the front plate handle

5. Remove the front plate.

Figure 4-16. Remove the front plate

6. Remove the two screws on the back of the cath rack arm using a Torx T8 screwdriver.

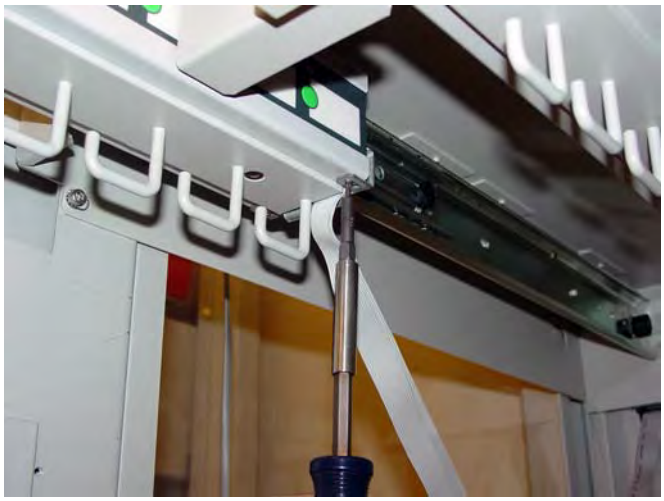

Figure 4-17. Remove the two screws securing the LED cable to the cath rack arm

7. Slide the switchpanel toward the back of the unit. Stop when the switchpanel is about halfway out.
8. Disconnect the switchpanel cable from the switchpanel.

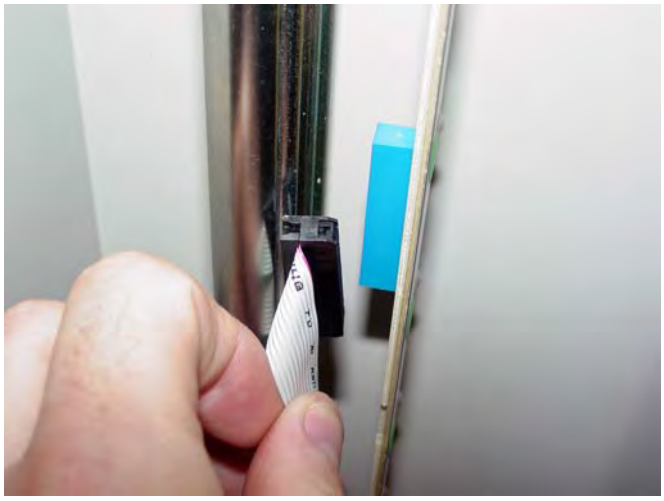

Figure 4-18. Disconnect the switchpanel cable

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9. Slide the switchpanel forward and remove it from the rail.

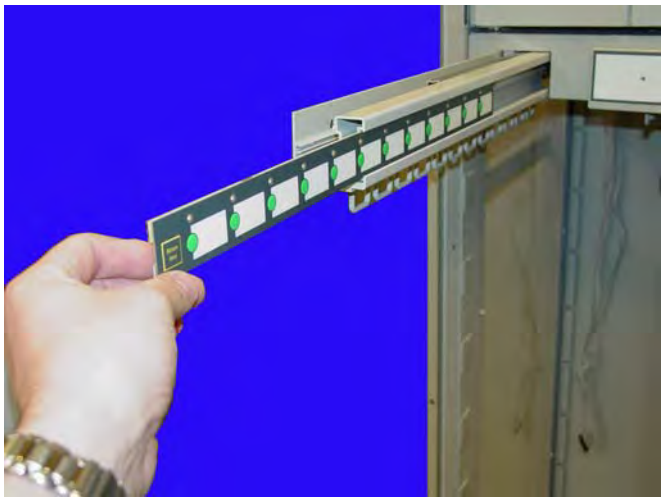

Figure 4-19. Remove the switchpanel from the Catheter rack rail.

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Doors

Introduction

Omnicell 1-,2-, and 3-cell cabinets and half-cell units have doors that are similar, but can be different sizes. The standard sizes for a door on a 1-, 2-, or 3-cell cabinet are: (A) full height, 2/3 height (next page), (B) 1/3 height and (C) CT PC Door.

Figure 5-1. (A) Full height door, (B) 1/3 door, and (C) CT PC door

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Figure 5-2. Standard 2/3 door

Tools list

The following tools are required to install or remove a standard door:

- Torx T20 screwdriver

Removal Procedure

- If the cabinet is powered up:
  1. Enter an administrator user name and password into the CT PC Box.
  2. Access the diagnostics screen and unlock the doors.
  3. Open the door.
- If the cabinet is not powered up:
  1. Unlock the cabinet using the #2036 key. Start with the right-most cell and unlock each cell until the desired cell is unlocked.
  2. Open the door.

1. Remove the two screws securing the top bracket of the door using a Torx T20 screwdriver.

Note: Hold onto the door while removing the two screws. The door may fall away from the cabinet after the screws are removed.

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Figure 5-3. Remove the Two Screws Securing the Top Bracket

2. Lift the door off the lower door bracket.

Installation Procedure

1. Place the door, bottom first, onto the bottom bracket. Ensure that the door is securely placed in the bracket.
2. Place the top bracket onto the door and line up the top of the door with the screw holes on the cabinet frame.
3. Attach the two screws securing the top bracket.

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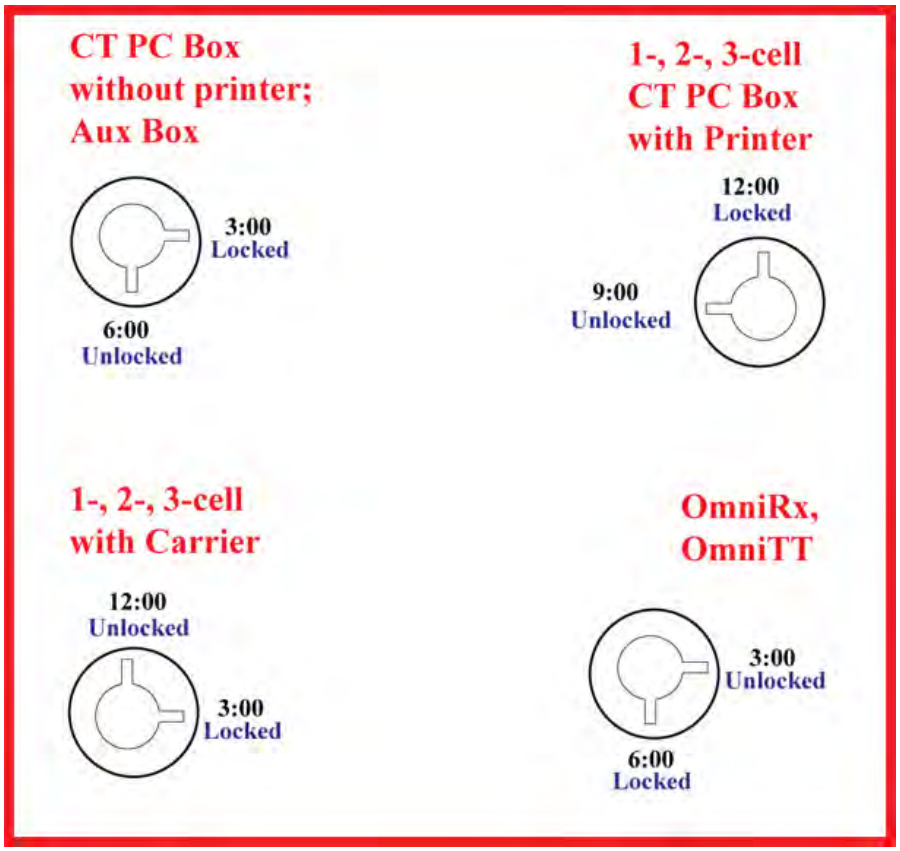
Locks and Latches

Introduction

Locks used in 1-,2, and 3-cell cabinets are cam locks. The locks may be used to secure pharmacy drawers, cabinet doors or CT PC Box lids. The cam locks are mounted with pawl latches and are designed to be oriented only one way. The following diagram shows the proper orientation of locks on a 1-, 2-, or 3-cell cabinet.

This chapter provides the removal procedure. Installation can be done by performing the removal procedure in reverse order.



Tools list

The following tools are required to install the CT PC Box:

- Torx T8 driver
- Torx T10 driver
- Torx T15 driver
- 9/64” Allen wrench
- Cam lock key #2036

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Removal Procedure

Wireway

1. Remove the wireway. Follow the procedures located in "Wireway Removal" on page 2-1.
2. Remove the two screws securing the cam lock assembly to the wireway using a Torx T15 screwdriver.

Figure 6-1. Remove the Two Screws Securing the Lock Assembly

3. Remove the lock from the wireway.

Manual Override Cover

Manual override covers are equipped with locks to help prevent unauthorized access to pharmacy drawers and dispensers.

1. Unlock and remove the manual override cover.

Figure 6-2. Unlock and Remove the Manual Override Cover

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2. Remove the nut that secures the lock to the cover.

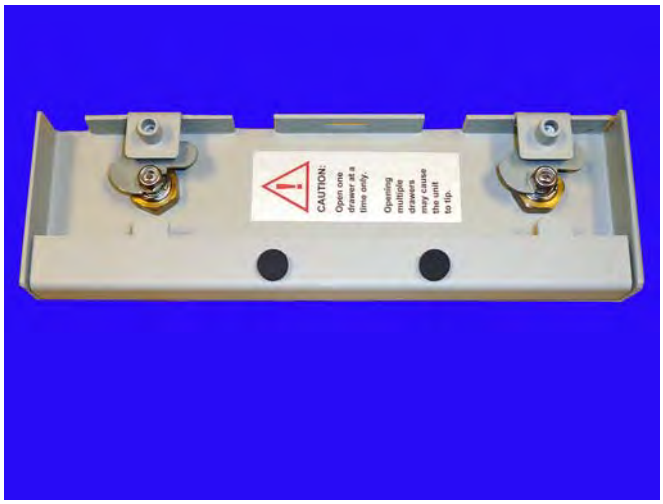

Figure 6-3. Three Drawer Manual Override Cover and Locks

3. Remove the pawl latch.
4. Loosen and remove the larger nut that secures the lock to the cover.
5. Remove the lock.

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Drawers

Introduction

There are a variety of drawers available for the 1-, 2-, and 3-cell cabinets. Each drawer type offers a different level of control for storing and tracking medications and pharmacy supplies.

The supply drawer is the lowest security drawer available. It is typically used to store items that are frequently used and require little security. The drawer is custom configured using individual dividers and has a 24-line maximum capacity.

The Omnicell Matrix Drawer (OMD) models are matrix drawers without lids that are configured by using individual dividers. Drawer liners are used to configure matrix drawers to the required number of bins. The matrix drawers can be lit with guiding light technology (OLMD) or can come unlit (OMD).

The lit matrix drawers are configurable up to a maximum of 24 bins and the unlit matrix drawer is configurable up to a maximum of 96 bins. The drawers are separated into four equal quadrants. In the unlit drawers, each quadrant can contain a maximum of 24 bins. In the lit matrix drawer, each quadrant can contain a maximum of six bins.

The Omnicell Sensing Lid (OSL) models have sensing lids. As each lid is lifted, the system senses and records access to the bin. This guarantees security to those drawers that contain controlled substances.

The Omnicell Locking Lid (OLL) models are the highest security drawer available. When these high security drawers are opened, the user can only access the one bin containing the pre-selected medication. No other bin is unlocked when the user is working in the desired bin. Special censors provide audible and visual feedback if users attempt unauthorized entry into bins that are not pre-selected.

Tools List

The following tools may be required to install a drawer:

- Torx T10 screwdriver
- Torx T15 screwdriver
- Rivet Installer

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Bin Configuration

Unlit Matrix Drawers

Each unlit matrix drawer can contain a maximum of 96 bins (24 in each quadrant). Customers can utilize the flexibility of this drawer and customize it to meet specific needs and requirements for the site. As with other matrix drawers, the dividers are designed to be snapped off, enabling the bins to be custom-configured to fit site-specific needs.

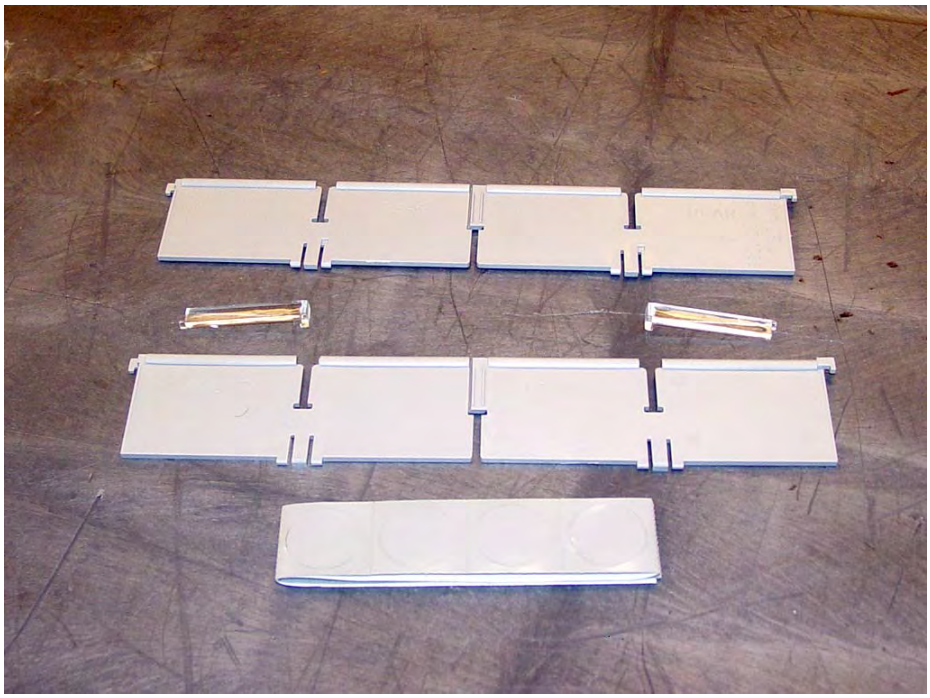

Figure 7-1. Matrix drawer dividers

Note: Dividers must be placed into the drawer in a specific order with each divider in a specific slot, so separating the dividers by part number is recommended.

1. Make sure that the layout of each drawer has been approved by the customer before installing the dividers.

Note: It is recommended that a drawing be made of each drawer, showing the customer's preferred configuration for each quadrant of a given drawer.

2. Break the divider tabs according to the customer design and trim away excess plastic to ensure a snug fit in the drawer.
3. Add the dividers to the bin liner. The dividers should snap into the bottom of the drawer and the sides of each bin liner quadrant.
4. Use the gray circular labels provided with the kit to cover any un-used divider slots in the bin liner.

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Lit Matrix Drawers

Each lit matrix drawer can contain a maximum of 24 bins (six in each quadrant). Customers can utilize the flexibility of this drawer and customize it to meet specific needs and requirements for the site. As with other matrix drawers, the dividers are designed to be snapped off, enabling the bins to be custom-configured to fit site-specific needs.

Note: Dividers must be placed into the drawer in a specific order with each divider in a specific slot, so separating the dividers by part number is recommended.

Figure 7-2. Lit matrix drawer

1. Make sure that the layout of each drawer has been approved by the customer before installing the dividers.

Note: It is recommended that a drawing be made of each drawer, showing the customer's preferred configuration for each quadrant of a given drawer.

2. Break the divider tabs according to the customer design and trim away excess plastic to ensure a snug fit in the drawer.
3. Add the dividers to the bin liner. The dividers should snap into the bottom of the drawer and the sides of each bin liner quadrant.
4. Use the gray circular labels provided with the kit to cover any un-used divider slots in the bin liner.
5. Insert the light pipes into each notch provided in the dividers. The light pipe is installed on the rear side of the bin divider and snaps into a slot on the bottom of the bin liner.

Note: Be sure to place a light pipe into every notch, even if the position will not be used for guiding light purposes. The pipes provide support and help keep the dividers in place.

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Labeling

Numerical bin labels are provided with matrix drawers to make bin identification and restock easier for the customer.

The bottom of the bin liner on any matrix drawer is numbered according to its type (i.e. 1-96, 1-24, 1-4). These numbers are used to identify bin locations for the drawer. The drawer will be numbered by using the lowest number in a specific bin.

In the following example, the bin in the lower right corner of the drawer would be Bin 7, the bin in the upper left corner would be Bin 49, and the bin in the upper right corner would be Bin 85.

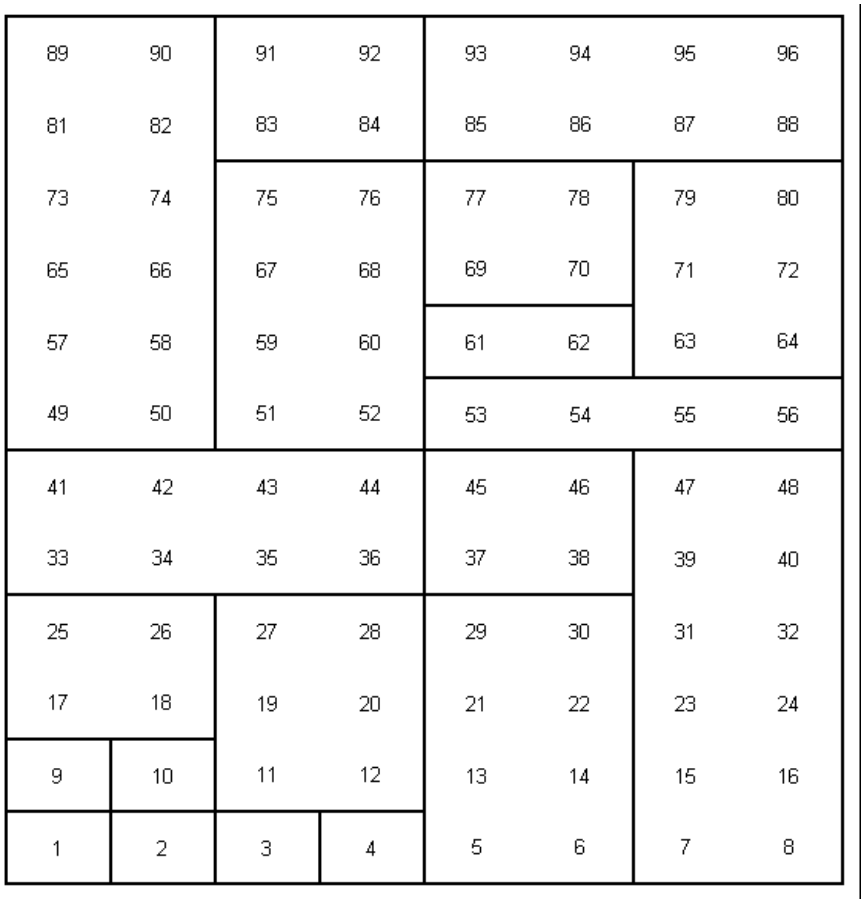

Figure 7-3. Matrix Drawer labeling System

Once a bin has been configured, label the bin divider to correspond with the bin name corner. and affix the label to the top of the right rear divider of that bin.

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Installation Procedures

Note: When replacing a drawer, reset the drawer address before performing the replacement. See "Resetting Drawer Addresses" on page 7-17.

Supply Drawer

1. Perform a graceful shutdown of the CT PC box.
2. Open the door in the zone where the supply drawer will be located.
3. Slide the two drawer brackets into the slots in the back of the frame.

Note: For supply drawers installed directly below the console, use part numbers 53-3043 (left bracket) and 53-3044 (right bracket). For all other locations, use part numbers 53-3007 (left bracket) and 53-3009 (right bracket).

4. Secure the bracket to the frame with the screw provided using a Torx T15 screwdriver to tighten the screw.
5. Slide the supply drawer and housing onto the brackets until the drawer snaps into the latching tabs located on the back of the bracket.
6. Connect the SPC board cable to the 10-pin connector on the rear of the SPC board in the wireway of the frame.
7. Use a Torx T15 screwdriver to insert two screws—one on either side of the bottom of the drawer - to secure the supply drawer to the drawer brackets.
8. Insert the switchpanel connector cover into the hole in the frame.
9. Set the dip switches for the shelf and the zone settings. There are two sets dip switches. The first group (S1) sets the drawer zone. The second group (S2) sets the drawer location.

Note: On switch S1, switch #8 must always be off for a supply drawer SPC.

Double-Deep Drawer

Installing a Double Deep 4-Bin Matrix drawer (OMD4) is the same as installing any other double deep drawer in a 1-, 2-, or 3-Cell cabinet. The OMD4 would replace an existing double deep drawer or it would replace two single deep drawers.

1. Perform a graceful shutdown of the CT PC box and remove the existing double deep drawer, two existing drawers, two false door fronts or a combination of drawer and false fronts that would take up two adjoining drawer spaces.

Note: If two single deep drawers are removed, the lower set of slide mount brackets must be removed from inside the carrier before continuing.

2. Insert the bin liner into the drawer, with the side numbered 1 and 2 facing the front.
3. Insert the right/left bin divider into the bin liner.
4. Insert the front/rear bin divider into the bin liner.
5. Connect the drawer cable, then insert the drawer into the carrier.

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Pharmacy Drawer

Important: A Pharmacist must be present when servicing pharmacy drawers where medications are present.

1. Unlock the manual override cover.
2. Remove the cover by pushing it to the right and lifting it off.
3. Remove any false drawer front by removing the two screws securing the false drawer front using a Torx T15 screwdriver. These screws will be used later in the procedure.

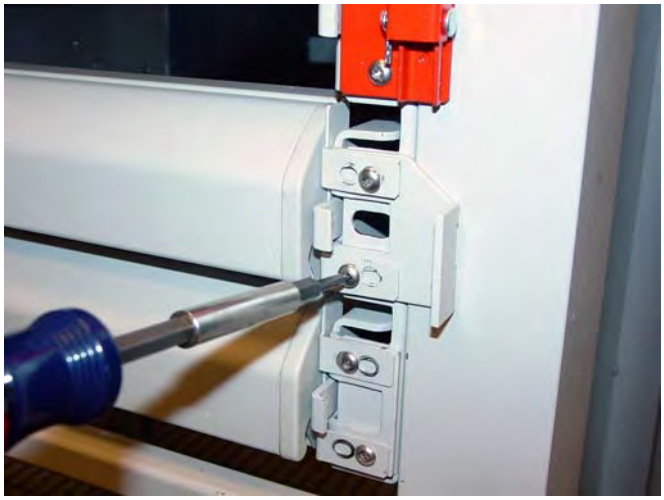

Figure 7-4. Remove the screws securing the false drawer front

4. Remove the slide support bracket.

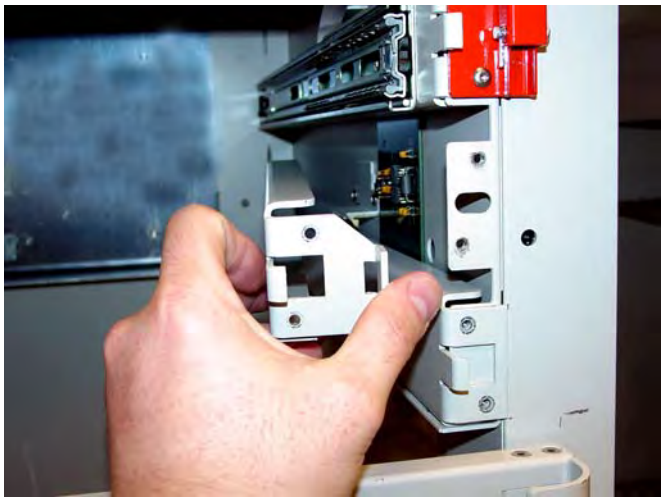

Figure 7-5. Remove the slide support bracket

5. Connect the drawer cable to the drawer connect board.
6. Attach one side of the double-sided tape to the cable clamp and the other to the drawer cable.
7. Line up the tape to the edges of the clamp and secure the clamp to the carrier with two screws. using a Torx T15 screwdriver to tighten the screws.

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8. Connect a slide to the left side of the carrier using the three screws provided. Tighten the screws using a Torx T15 screwdriver.
9. Connect the drawer controller cable to the drawer controller board at the rear end of the drawer.
10. Replace the slide to the slide support bracket with three screws and washers using a Torx T15 screwdriver.
11. Install the slide support bracket with slide attached.

Figure 7-6. Install the new slide support bracket

Note: The washers must be used. They ensure that the screw threads do not protrude into the cable path.

12. Place the drawer controller cable flat on top of the slide support bracket and hold it down before replacing the pharmacy drawer.

Important: The cable must be flat to prevent damage during installation of the drawer. Ensure that the cable is between the bracket and tab on the right rear of the pharmacy drawer when installing the drawer.

13. Place the drawer onto the rails and push it all the way into the cabinet.
14. Pull the drawer back out until as far as it will go.
15. Place the drawer controller cable onto the drawer and connect the cable to the drawer.
16. Replace the pharmacy drawer controller cable clamp and the drawer controller cable to the pharmacy drawer with the two screws provided with a Torx T10 screwdriver.
17. Close the drawer and replace the pharmacy manual override cover.
18. Power up the cabinet.
19. Program the drawer at the OmniSupplier in OmniConfigurations.

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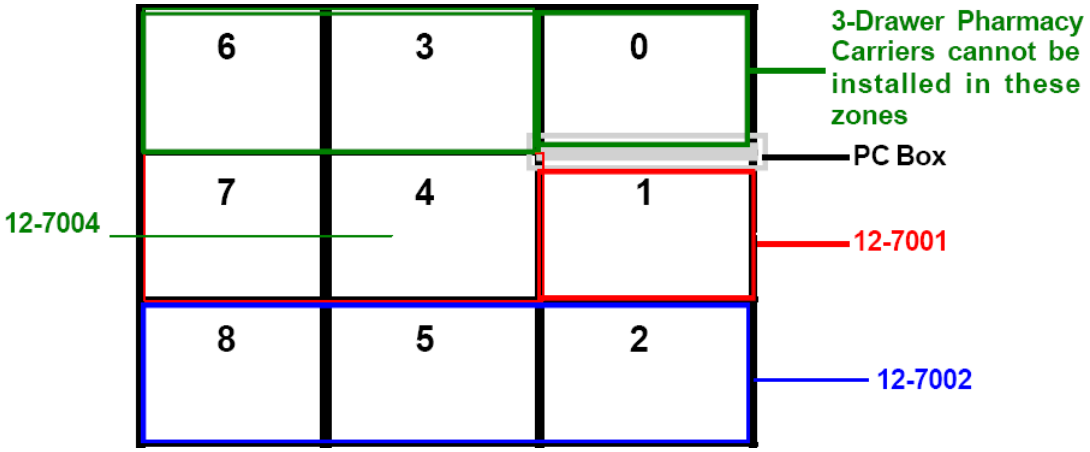
Three-Drawer Pharmacy Module

A Three-Drawer Pharmacy Module is available to customers who have fewer medications to track. It can only be installed in a 1-, 2-, or 3-cell cabinet or half-cell cabinet and may not be installed in the same cell as a catheter rack.

The Three-Drawer Pharmacy Module can only be installed in the bottom of zones 1, 2, and 4. A separate install kit has been created for each zone location:

- Zone 1 (kit #12-7001)
- Zone 2 (kit #12-7002)
- Zone 4 (kit #12-7004)

To install a Three-Drawer Pharmacy Module, all five switchpanels in the install zone must be removed. The carrier occupies switchpanel positions one and two. Shelves can be installed in switchpanel positions 3, 4, and 5, if necessary.



A Nine-Drawer Pharmacy Module cannot be retrofitted with a Three-Drawer Pharmacy Module as the entire frame must be replaced to install a Three Drawer Module. A Three Drawer Pharmacy Module can only be installed in the supply zones of full frame cabinet.

1. Perform a graceful shutdown of the CT PC box.
2. If a door exists in the zone where the three-drawer module exists, remove the door.
   a. Open the door in the zone where the Three Drawer Pharmacy Module will be located.
   b. Remove the two screws that hold the upper bracket of the door in place. Use a Torx T25 screwdriver.
   c. Lift the door straight up off the lower hinge and remove the door.

Note: Hold onto the door while removing the screws.

3. Remove all switchpanels and shelves for the zone in which the module will be installed.
4. Remove any switchpanel connector covers on the frame in the zone in which the Three Drawer Pharmacy Module needs to be installed.
5. Remove the black rubber door bumper on the frame of the unit where the carrier will be installed.

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6. If a plastic cover panel is not already located on each side of the frame, cut the rivets present on the inside of the frame in the zone in which the Three Drawer Pharmacy Module needs to be installed. Use diagonal cutters to cut the rivets.

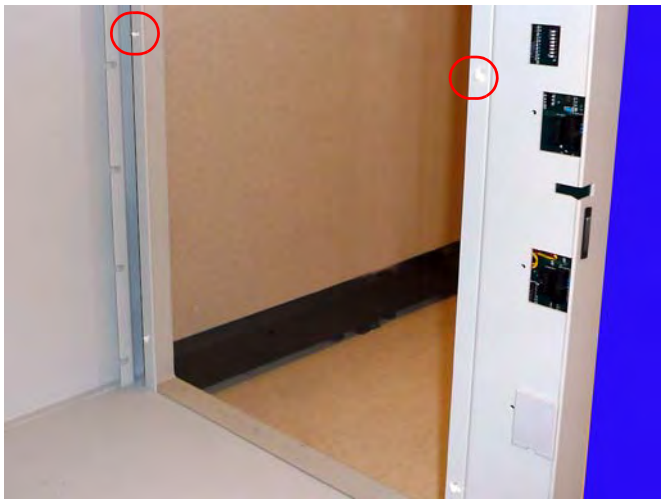

Figure 7-7. Cut the rivets on the inside of the frame

7. Slide the plastic cover panel between the metal flange and the acrylic panel on the inner side of the frame, aligning all rivet holes. Secure the panel to the frame with rivets using a rivet installer.

Figure 7-8. Slide the plastic cover panel between the metal flange and the acrylic panel

8. Insert the rear and right carrier wall into the frame so that the three tabs on the rear carrier wall anchor into the slots on the back of the frame.

Figure 7-9. Insert the right and rear carrier walls

9. Secure the right carrier bracket to the frame with two screws with a Torx T15 screwdriver.

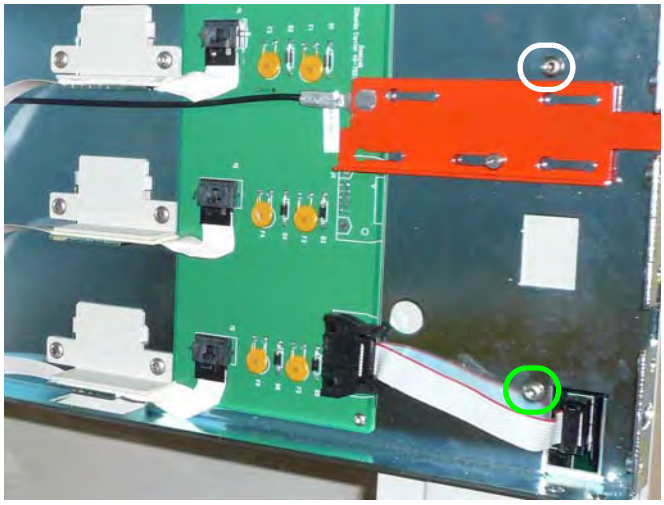

Figure 7-10. Secure the carrier wall to the frame

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10. Insert the spacer bracket between the left carrier bracket and the frame.

Figure 7-11. Insert the hinge bracket between the left carrier wall and the frame

11. Secure the left carrier wall to the frame with two screws using a Torx T15 screwdriver.

Figure 7-12. Secure the left carrier wall to the frame

12. Install the top and bottom slides to the holes on the left carrier wall, securing each with two screws with a Torx T15 screwdriver.

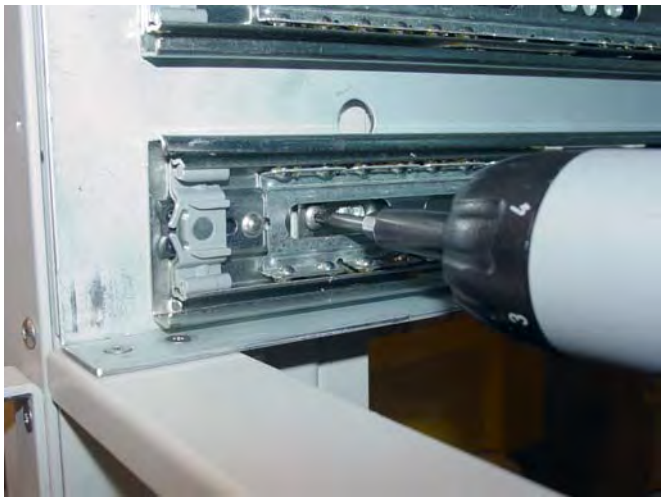

Figure 7-13. Install the drawer slides

13. Install the front Facia bracket, connecting it with two screws to both the left and right walls of the carrier with a Torx T10 screwdriver.

Figure 7-14. Install the front facia bracket

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14. Connect one end of the SPC-to-carrier control board 10-pin ribbon cable to the carrier control board and the other end to the SPC board on the frame.

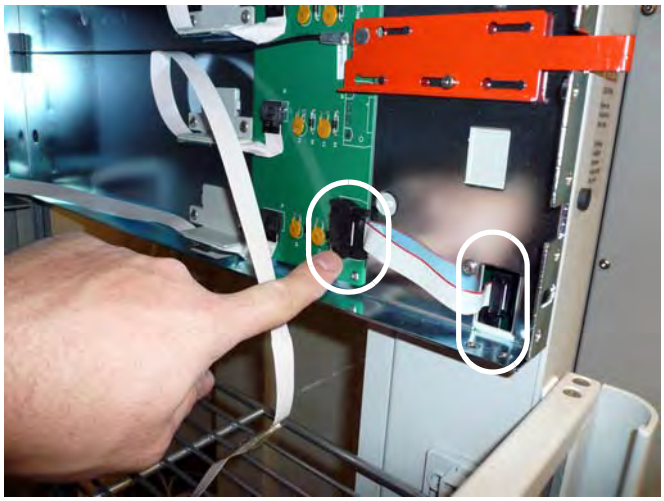

Figure 7-15. Connect the SPC-to-carrier cable.

15. Insert the tabs on the slide support brackets into the slots on the rear carrier wall.

Figure 7-16. Insert the slide support brackets

16. Secure each of the slide support brackets to the right carrier wall with two screws using a Torx T15 screwdriver.

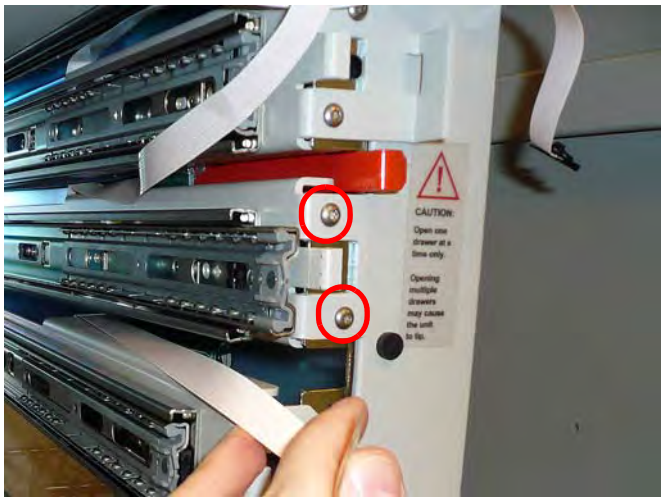

Figure 7-17. Secure the slide support bracket

17. Place the drawer controller cable flat on top of the slide support bracket and hold it down before replacing the pharmacy drawer.

Important: The cable must be flat to prevent damage during installation of the drawer. Ensure that the cable is between the bracket and tab on the right rear of the pharmacy drawer when installing the drawer.

18. Place the bottom drawer onto the rails and push it all the way into the cabinet.
19. Pull the drawer back out until as far as it will go.
20. Place the drawer controller cable onto the drawer and connect the cable to the drawer.
21. Replace the pharmacy drawer controller cable clamp and the drawer controller cable to the pharmacy drawer with the two screws provided with a Torx T10 screwdriver.
22. Close the drawer
23. Repeat the steps for the other two drawers.
24. Replace the pharmacy manual override cover.

Configuration

1. Power up the cabinet.
2. Program the drawer at the OmniSupplier in OmniConfigurations.
3. Log on by entering a valid user ID and Password.
4. Select **OmniConfigurations** > **Zone Type Configurations**.
5. Change the value of the zone to 2.
6. Select **Zone Access Configurations**.
7. Change the value of the zone to 1.
8. Select **Pharmacy Options**.
9. Change **Support Pharmacy System** to Yes.

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10. Select **Door Configurations** and verify that every zone that has a latch and a solenoid using that latch is Active. Zones that may have latches but no solenoid or solenoid with no latches should be Inactive.

Removal Procedure

Note: When replacing a drawer, reset the drawer address before performing the replacement. See "Resetting Drawer Addresses" on page 7-17.

Pharmacy Drawer

Important: A Pharmacist must be present when servicing pharmacy drawers where medications are present.

1. Perform a graceful shutdown of the CT PC box.
2. Remove the manual override cover on the pharmacy drawers.

Figure 7-18. Remove the manual override cover

3. Pull the manual override lever/flag and open the desired pharmacy drawer.

4. Remove the two screws securing the drawer controller cable cover to the cable clamps with a Torx T10 screwdriver.

Figure 7-19. Remove the controller cable cover

5. Remove the cable clamp and disconnect the cable.

Figure 7-20. Remove the controller cable

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6. Push the release levers on either side of the drawer up or down to release the drawer.

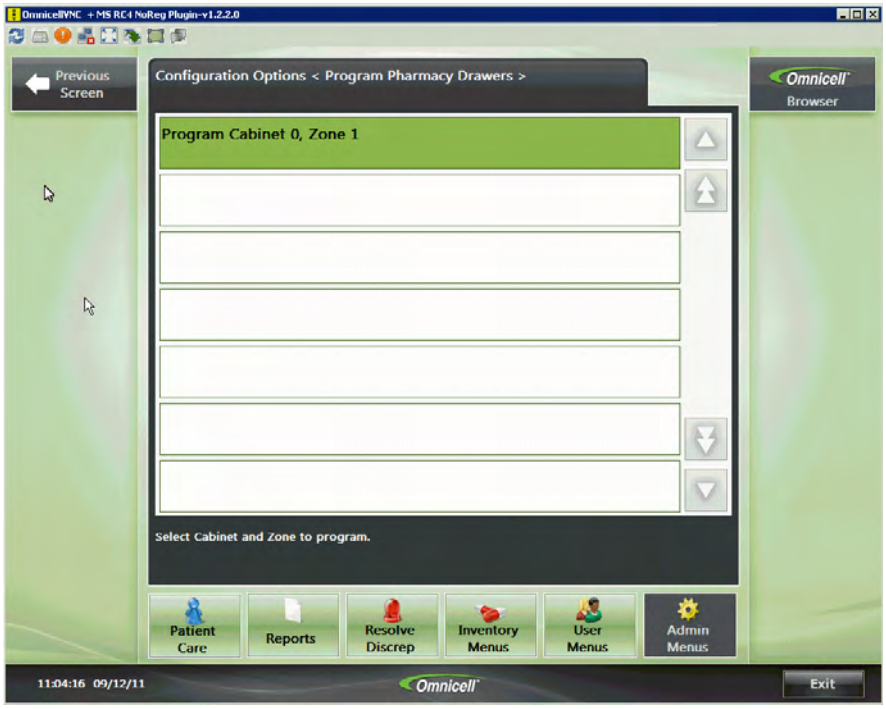
Figure 7-21. Push the release levers to release the drawer

7. Remove the pharmacy drawer from the module.

Resetting Drawer Addresses

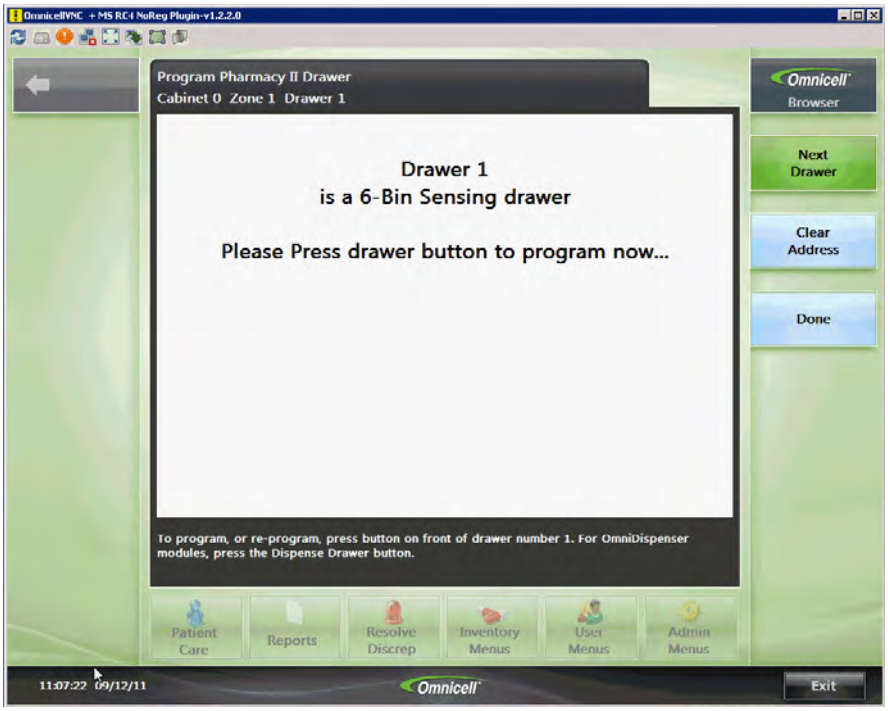
Drawers are programmed during manufacturing and must be reprogrammed if there are any changes to the drawer locations. To check the current programming, or to reprogram the drawers:

1. Log on to the cabinet as omnitech.
2. Select **Omni Config** > **Program Pharmacy Drawers**.
3. Select the zone from the menu.

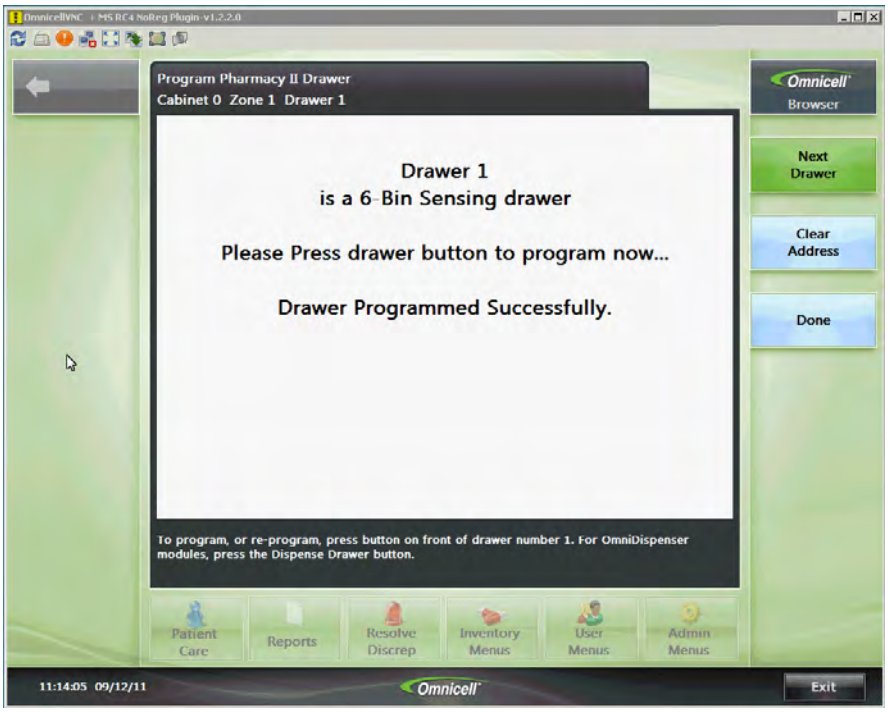


Starting at the top of the cabinet, the system lights the first drawer.

4. Press the lit button to program the drawer.



A message indicates when the drawer is successfully programmed.



5. Press **Next Drawer** and continue programming each drawer and zone until complete.
6. When finished, press **Done**.

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Drawer Connect Board

Introduction

The drawer connect board interfaces the SPC board with the pharmacy controller module. It distributes power and communication data through its connectors from the SPC to the pharmacy drawers. The drawer connect board also protects the pharmacy drawers from electrical shorts and overloads.

This chapter provides the removal procedure. Installation can be done by performing the removal procedure in reverse order.

Tools List

The following tools are required to install the CT PC Box:

- Torx T15 screwdriver
- 1/16” Allen wrench

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Remove the manual override cover on the pharmacy drawers.

Figure 8-1. Remove the Manual Override Cover

3. Remove all of the drawers in the pharmacy carrier.

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4. Remove any false drawer fronts.

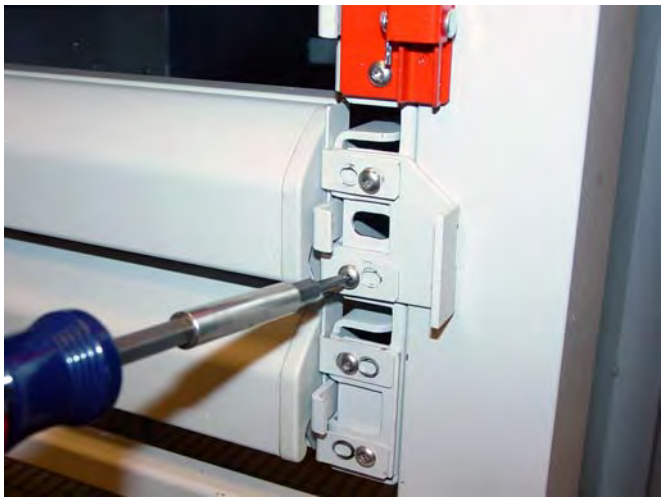

Figure 8-2. Remove the Screws Securing the False Drawer Front

5. Remove the two screws securing the manual override lever, then remove the bar.

Figure 8-3. Remove the Manual Override Bar

6. Remove the two screws securing the slide support bracket.

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7. Remove all slide support brackets.

Figure 8-4. Remove the Slide Support Brackets

8. Remove the two screws on either side of each cable mounting bracket using a Torx T15 screwdriver.

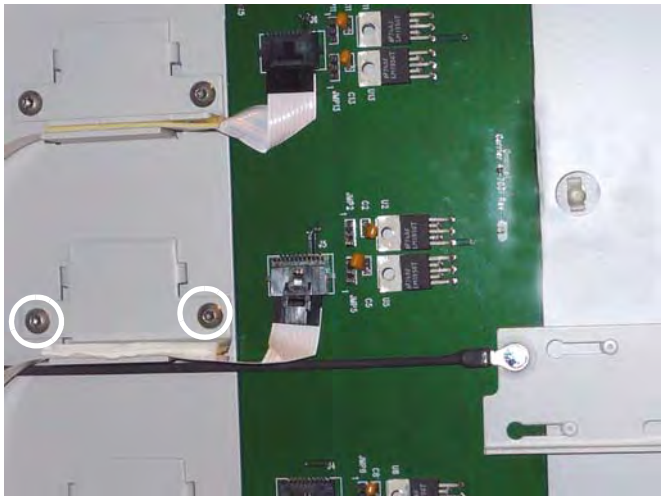

Figure 8-5. Remove the Screws on the Cable Mounting Bracket

9. Disconnect the drawer cables from the drawer connect board.

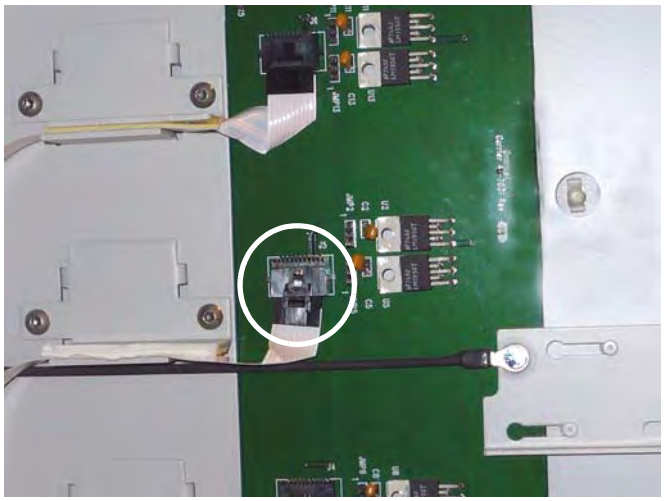

Figure 8-6. Disconnect the Drawer Cable from the Drawer Connect Board

10. Remove the SPC to drawer connect board cables.

Figure 8-7. Remove the SPC to Drawer Connect Board Cables

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11. Remove the eight screws securing the drawer connect board to the wall using the 1/16” Allen wrench.

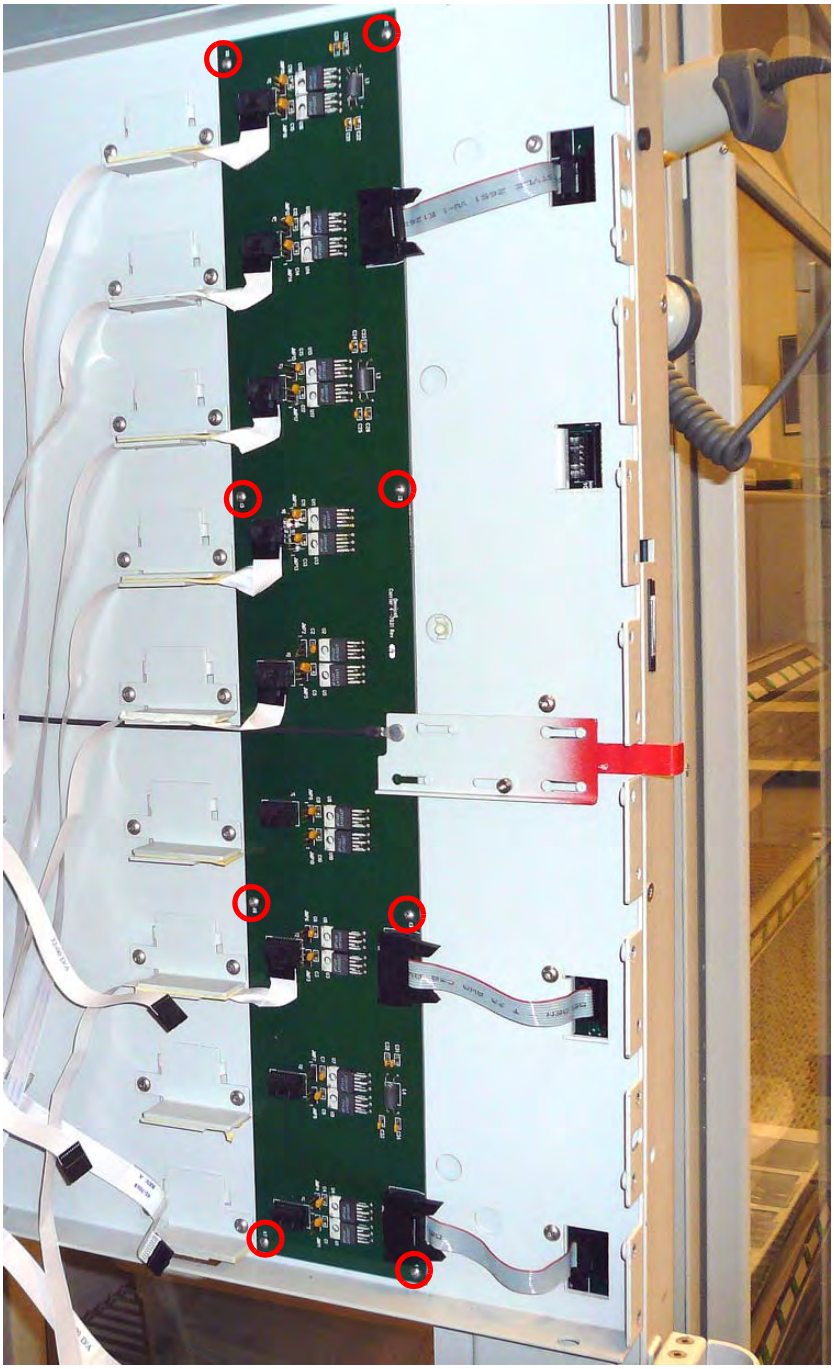

Figure 8-8. Remove the Screws Securing the Drawer Connect Board to the Wall

12. Remove the drawer connect board.

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Manual Override

Introduction

In the event of a hospital electrical power failure or an extended power outage, all Omnicell cabinets can be opened with a manual override mechanism. A series of locks, levers and linkages provide access to the supply doors, pharmacy drawers and pharmacy drawer bins.

Manual records must be kept when using the manual override system as no power is being supplied to the Omnicell cabinet.

This chapter provides the removal procedure. Installation can be done by performing the removal procedure in reverse order.

Tools List

The following tools are required to install or remove a manual override:

- Torx T15 screwdriver
- Torx T20 screwdriver

Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Remove the manual override cover on the pharmacy drawers.

Figure 9-1. Remove the Manual Override Cover

3. Remove all of the drawers in the pharmacy carrier.

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4. Remove any false drawer fronts.

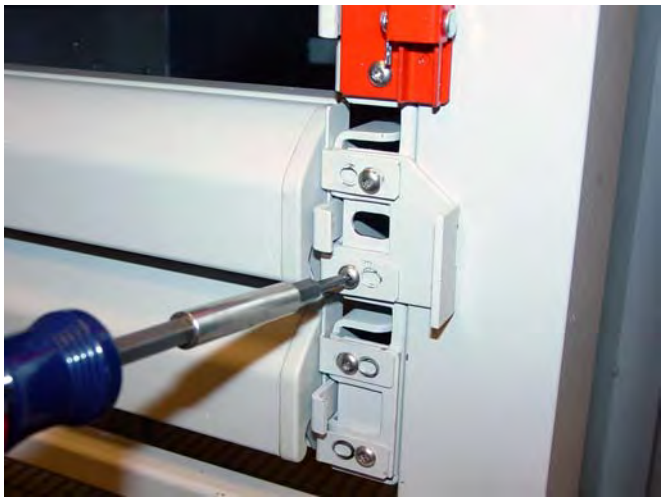

Figure 9-2. Remove the Screws Securing the False Drawer Front

5. Remove the two screws securing the manual override lever, then remove the bar.

Figure 9-3. Remove the Manual Override Bar

6. Remove the two screws securing the slide support bracket and slide support bracket.

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7. Remove all slide support brackets.

Figure 9-4. Remove the Slide Support Brackets

8. Remove the screws securing the top cover to the frame, one on each side of the carrier.

Figure 9-5. Remove the screws securing the top cover to the frame

9. Remove the top cover.

10. Remove the two screws securing the left carrier wall to the back of the frame.

Figure 9-6. Remove the Two Screws Securing the Left Carrier Wall to the Back of the Frame

11. Remove the buttonhead screw securing the left carrier wall to the left side of the frame.

Figure 9-7. Remove the buttonhead screw securing the left carrier wall to the left side of the frame

12. Remove the left carrier wall.

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13. Remove the four screws securing the right carrier wall to the right side of the frame.

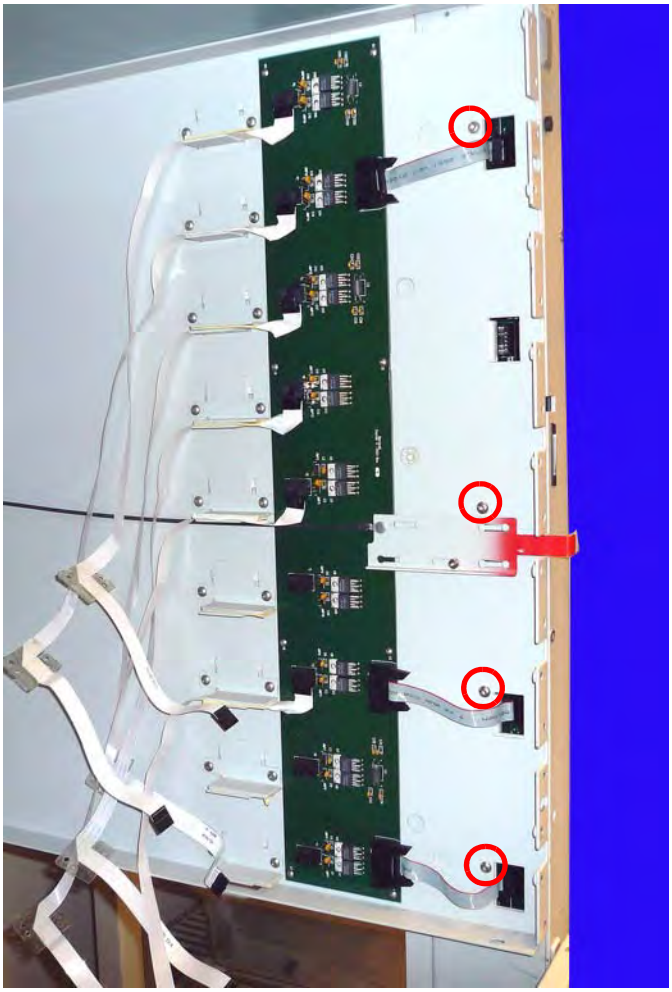

Figure 9-8. Remove the four screws securing the right carrier wall to the right side of the frame

14. Remove the right and rear carrier walls together.

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15. Remove the nut securing the manual override to the back side of the rear carrier wall.

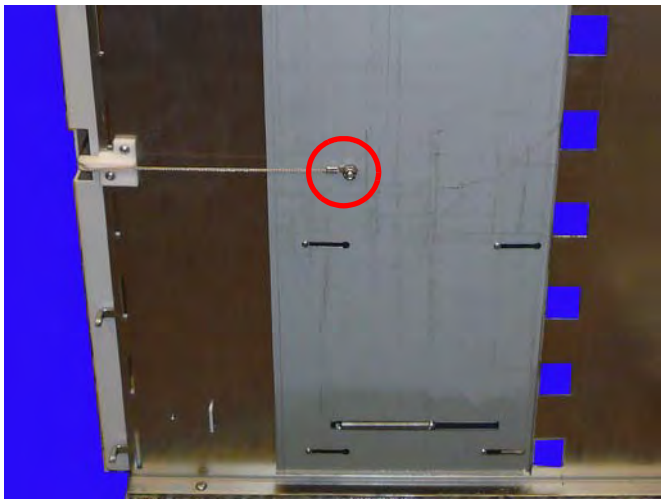

Figure 9-9. Remove the nut securing the manual override to the back side of the rear carrier wall.

16. Remove the buttonhead screw securing the manual override to the carrier wall.

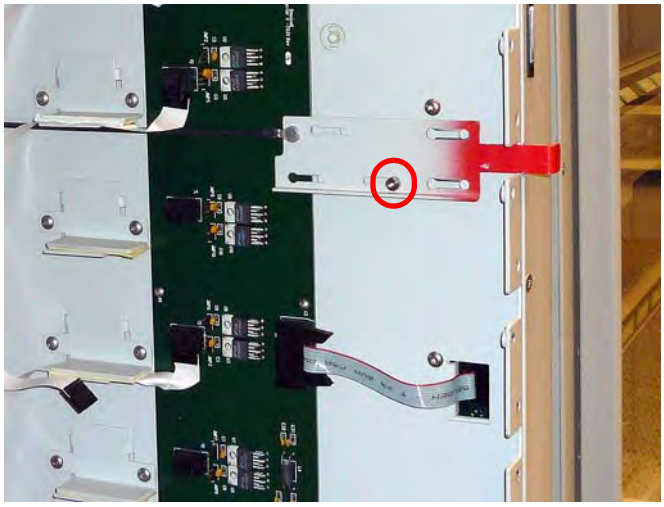

Figure 9-10. Remove the buttonhead screw securing the manual override to the carrier wall

17. Slide the manual override away from the rear of the frame and remove the manual override.

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Catheter Rack

Introduction

The catheter rack module (also called cath rack) is an option that can be integrated into any OmniSupplier full frame unit. Only one rack per cell can be installed to ensure the catheters are not damaged.

Tools List

The following tools are required to install, remove or repair a cath rack:

- 3/32” Allen wrench
- 5/32” Allen wrench
- 5/16” nut driver
- Torx T8 screwdriver
- Torx T15 screwdriver

Installation Procedure

Caution: Cath racks are very heavy and awkward to install or remove due to limited hand holds. Never climb inside a frame when installing or removing a cath rack. To properly and safely install a cath rack, two people are required.

Serious injuries could result from improper handling of a cath rack or failure to abide by the caution and warning alerts noted in this procedure.

1. Perform a graceful shutdown of the CT PC Box.
2. Turn the cath rack over and bend its rear tabs out no more than 10 degrees.

   This will help prevent the cath rack from falling while inserting the screws.
3. Turn the cath rack on its side or with the cables and connectors up.

Caution: Never set the cath rack down with the cables and connectors facing down as they may be damaged.

4. Remove the three screws securing the cable cover to the frame of the unit using a 3/32” Allen wrench.
5. Remove any switchpanel connector covers from the wireway holes on the frame.
6. Slide the cath rack into the frame. Make sure that the rear tabs slide into the slots at the back of the frame.
7. Insert two Allen wrenches into the screw holes on the right and left sides of the frame to temporarily support the cath rack in place.

Note: Keep a hand on the cath rack at all times to keep it from moving.

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8. Pull the 5/32” Allen wrench from the left screw hole and secure the cath rack to the left side of the frame with the screw provided.
9. Pull the 5/32” Allen wrench from the right screw hole and secure the cath rack to the right side of the frame with the screw provided.
10. Connect the eight cables from the cath rack to the wireway.
11. Install the cable cover to the frame with three screws using a 3/32” Allen wrench.

Note: Ensure that the cover does not pinch any of the cables.

12. Replace the switchpanel connector covers in the remaining wireway holes in the frame of the OmniSupplier.

Configuration

1. Power up the CT PC Box.
2. Log on by entering a valid user ID and Password.
3. Select **OmniConfigurations** - -> **Catheter Module Configuration.**
4. Enter the current value.

   The value equals the number of rows from the top of the cabinet to the first cath rack connected to the wireway. As an example, if the first wireway cable is attached to the fifth wireway connection, the value would be 5.

Removal Procedure

Caution: Cath racks are very heavy and awkward to install or remove due to limited hand holds. Never climb inside a frame when installing or removing a cath rack. To properly and safely install a cath rack, two people are required.

Serious injuries could result from improper handling of a cath rack or failure to abide by the caution and warning alerts noted in this procedure.

1. Perform a graceful shutdown of the CT PC Box.
2. Unlock the cabinet where the catheter rack is located.
3. Remove the cable cover using a 3/32” Allen wrench to remove the three screws.
4. Disconnect the eight cable connectors from the wireway.
5. Remove the screw from the left screw hole and replace it immediately with a 5/32” Allen wrench.
6. Remove the screw from the right screw hole and replace it with an Allen wrench.
7. Lift the cath rack off the Allen wrenches and carefully remove it from the frame.
8. Set the cath rack down with the hooks facing up so that they are not damaged.

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Service Procedures

The following two steps are common for all service procedures.

1. Perform a graceful shutdown of the CT PC Box.
2. Unlock the cabinet where the catheter rack is located.

LED Panel

1. Pull the cath rack rail forward until it is fully extended.

Figure 10-1. Extend the cath rack housing until it locks into place

2. Remove the front LED panel by removing the two nuts on either side of the panel using a 5/16" nut driver.

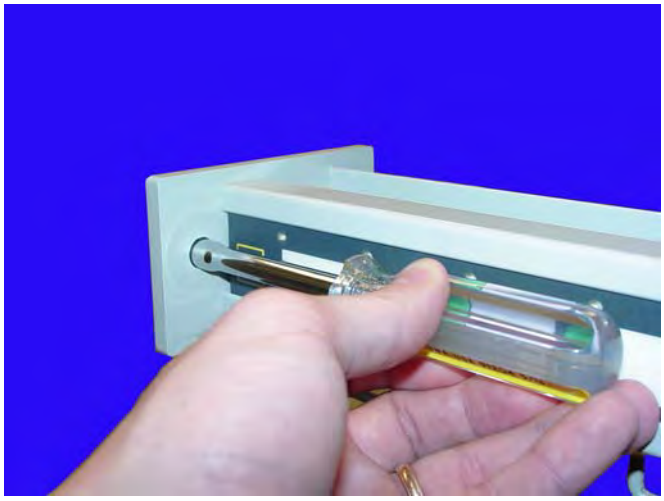

Figure 10-2. Remove the nuts securing the LED panel

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3. Disconnect the LED cable from the front LED panel, then remove the panel.

Figure 10-3. Disconnect the LED cable

Front Plate

1. Perform the procedures described in "LED Panel" on page 10-3.
2. Remove the two screws on the plate handle.

Figure 10-4. Remove the two screws on the plate handle

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3. Remove the front plate.

Figure 10-5. Remove the Front Plate

Switchpanel and Cable

1. Perform the procedures described in "LED Panel" on page 10-3.
2. Perform the procedures described in "Front Plate" on page 10-4.
3. Remove the two screws on the back of the cath rack housing using a Torx T8 screwdriver.

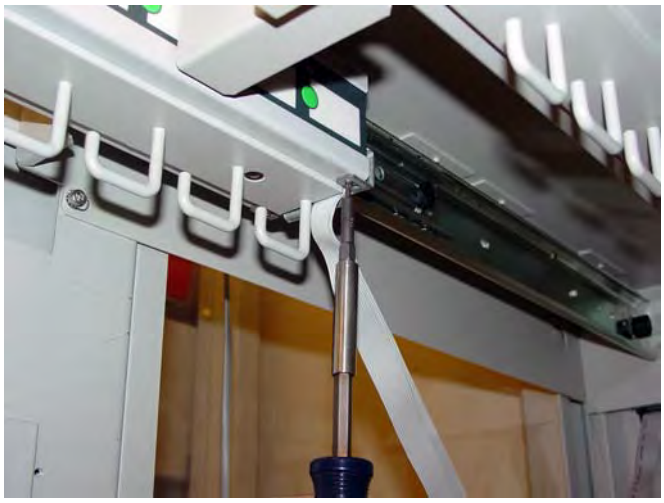

Figure 10-6. Remove the two screws securing the LED cable to the cath rack

4. Slide the switchpanel toward the back of the unit and stop when the switchpanel is about halfway out.

5. Disconnect the switchpanel cable from the switchpanel.

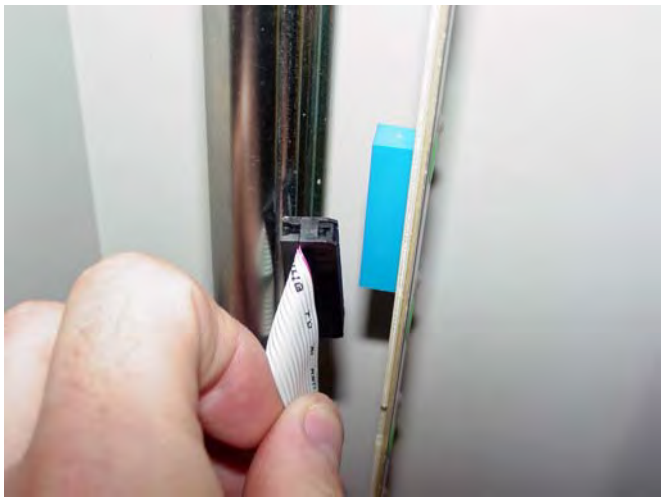

Figure 10-7. Disconnect the switchpanel cable

6. Slide the switchpanel forward and remove it from the rail.

LED Cable

1. Pull the cath rack rail forward until it is fully extended.
2. Remove the front LED panel by removing the two nuts on either side of the panel using a 5/16" nut driver.
3. Remove the front plate from the cath rack arm by removing the two screws using a Torx T15 screwdriver.

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4. Remove the two screws securing the plate on the back of the cath rack arm using a Torx T8 screwdriver.

5. Remove the plate.

6. Slide the switchpanel toward the back of the cabinet.
7. Disconnect the switchpanel cable from the switchpanel.

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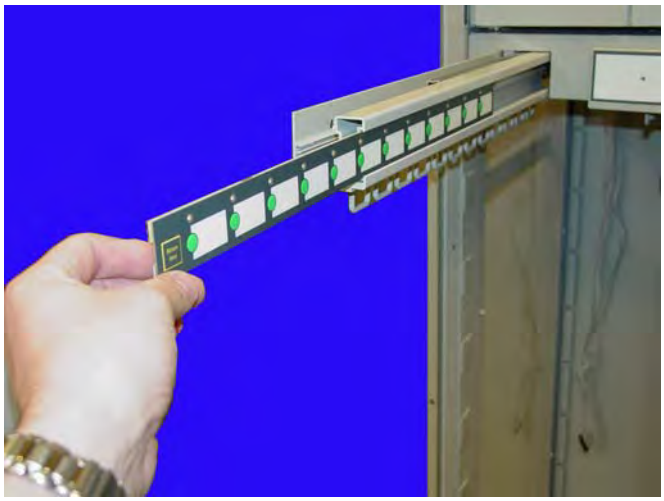
8. Slide the switchpanel forward and remove it from the arm.



Hooks

1. Pull the cath rack rail forward until it is fully extended.
2. Remove the three screws securing the hooks to the underside of the cath rack rail using a Torx T20 driver.
3. Remove the hooks.

Rail Slide

1. Pull the cath rack rail forward until it is fully extended.
2. Remove the LED front Panel. See "LED Panel" on page 10-3.
3. Remove the switchpanel. See "Switchpanel and Cable" on page 10-5.
4. Remove the two screws that secure the rail to the side of the frame using an 11/32" nutdriver.
5. Remove the two screws that secure the slide to the cath rack.

SPC Board

1. Remove the cath rack. See "Removal Procedure" on page 10-2.
2. Disconnect the six cables from the cath rack SPC board.
3. Remove the four screws securing the board to the rack using a 3/32" Allen wrench.
4. Remove the SPC board.

SPC Cables

1. Remove the three screws securing the switchpanel cover to the frame using a 3/32" Allen wrench.
2. Disconnect the eight SBC cables connecting the cath rack to the right side wireway.
3. Disconnect the two 50-pin cables from the SPC board.
4. Slide all the rails forward.

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5. Remove the SPC cables from the housing and out through the three cable tags.

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Suture Rack

Introduction

The suture rack module can be added to any cabinet. It is used to store, dispense and track suture usage. Multiple suture racks can be added to a single cabinet. The color coding and side loading features help allow easy access to the proper sutures. The module has three retractable racks which allows the system to store up to 24 individual suture boxes of varying sizes. As many as 20 suture rack modules, holding up to 480 different suture boxes, can be contained in a 3-cell cabinet.

Tools List

The following tools are required to install or remove a suture rack:

- 3/32” Allen wrench
- 5/32” Allen wrench
- Torx T8 screwdriver
- Torx T15 screwdriver

Installation Procedure

Cabinet Preparation

1. Perform a graceful shutdown of the CT PC Box.
2. Open the door where the suture rack will be installed.
3. Remove any existing shelves or drawers. where the rack will be located.

Suture Rack Housing

1. Slide the two suture rack brackets into the slots present in the back of the frame.
2. Secure each bracket with a screw using either a 3/32” Allen wrench or a Torx T15 screwdriver.
3. Set the dip switches according to zone and shelf location. See the following table.

Table 11-1. Dip Switch Settings for Cabinet Zones

Zone	Switch							
	1	2	3	4	5	6	7	8
0	On	On	On	On	On	On	On	Off
1	Off	On	On	On	On	On	On	Off
2	On	Off	On	On	On	On	On	Off
3	Off	Off	On	On	On	On	On	Off
4	On	On	Off	On	On	On	On	Off
5	Off	On	Off	On	On	On	On	Off

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Table 11-1. Dip Switch Settings for Cabinet Zones

Zone	Switch							
	1	2	3	4	5	6	7	8
6	On	Off	Off	On	On	On	On	Off
7	Off	Off	Off	On	On	On	On	Off
8	On	On	On	Off	On	On	On	Off
9	Off	On	On	Off	On	On	On	Off
10	On	Off	On	Off	On	On	On	Off
11	Off	Off	On	Off	On	On	On	Off
12	On	On	Off	Off	On	On	On	Off
13	Off	On	Off	Off	On	On	On	Off
14	On	Off	Off	Off	On	On	On	Off
15	Off	Off	Off	Off	On	On	On	Off
16	On	On	On	On	Off	On	On	Off
17	Off	On	On	On	Off	On	On	Off
18	On	Off	On	On	Off	On	On	Off
19	Off	Off	On	On	Off	On	On	Off
20	On	On	Off	On	Off	On	On	Off
21	Off	On	Off	On	Off	On	On	Off
22	On	Off	Off	On	Off	On	On	Off
23	Off	Off	Off	On	Off	On	On	Off
24	On	On	On	Off	Off	On	On	Off
25	Off	On	On	Off	Off	On	On	Off
26	On	Off	On	Off	Off	On	On	Off
27	Off	Off	On	Off	Off	On	On	Off
28	On	On	Off	Off	Off	On	On	Off
29	Off	On	Off	Off	Off	On	On	Off
30	On	Off	Off	Off	Off	On	On	Off
31	Off	Off	Off	Off	Off	On	On	Off
32	On	On	On	On	On	Off	On	Off
33	Off	On	On	On	On	Off	On	Off
34	On	Off	On	On	On	Off	On	Off
35	Off	Off	On	On	On	Off	On	Off
36	On	On	Off	On	On	Off	On	Off
37	Off	On	Off	On	On	Off	On	Off
38	On	Off	Off	On	On	Off	On	Off
39	Off	Off	Off	On	On	Off	On	Off
40	On	On	On	Off	On	Off	On	Off
41	Off	On	On	Off	On	Off	On	Off

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Table 11-1. Dip Switch Settings for Cabinet Zones

Zone	Switch							
	1	2	3	4	5	6	7	8
42	On	Off	On	Off	On	Off	On	Off
43	Off	Off	On	Off	On	Off	On	Off
44	On	On	Off	Off	On	Off	On	Off
45	Off	On	Off	Off	On	Off	On	Off
46	On	Off	Off	Off	On	Off	On	Off
47	Off	Off	Off	Off	On	Off	On	Off
48	On	On	On	On	Off	Off	On	Off
49	Off	On	On	On	Off	Off	On	Off
50	On	Off	On	On	Off	Off	On	Off
51	Off	Off	On	On	Off	Off	On	Off
52	On	On	Off	On	Off	Off	On	Off
53	Off	On	Off	On	Off	Off	On	Off
54	On	Off	Off	On	Off	Off	On	Off
55	Off	Off	Off	On	Off	Off	On	Off
56	On	On	On	Off	Off	Off	On	Off
57	Off	On	On	Off	Off	Off	On	Off
58	On	Off	On	Off	Off	Off	On	Off
59	Off	Off	On	Off	Off	Off	On	Off
60	On	On	Off	Off	Off	Off	On	Off
61	Off	On	Off	Off	Off	Off	On	Off
62	On	Off	Off	Off	Off	Off	On	Off
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71	Off	Off	Off	On	On	On	Off	Off
72	On	On	On	Off	On	On	Off	Off
73	Off	On	On	Off	On	On	Off	Off
74	On	Off	On	Off	On	On	Off	Off
75	Off	Off	On	Off	On	On	Off	Off
76	On	On	Off	Off	On	On	Off	Off
77	Off	On	Off	Off	On	On	Off	Off

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Table 11-1. Dip Switch Settings for Cabinet Zones

Zone	Switch							
	1	2	3	4	5	6	7	8
78	On	Off	Off	Off	On	On	Off	Off
79	Off	Off	Off	Off	On	On	Off	Off
80	On	On	On	On	Off	On	Off	Off
81	Off	On	On	On	Off	On	Off	Off
82	On	Off	On	On	Off	On	Off	Off
83	Off	Off	On	On	Off	On	Off	Off
84	On	On	Off	On	Off	On	Off	Off
85	Off	On	Off	On	Off	On	Off	Off
86	On	Off	Off	On	Off	On	Off	Off
87	Off	Off	Off		Off	On	Off	Off
88	On	On	On	Off	Off	On	Off	Off
89	Off	On	On	Off	Off	On	Off	Off
90	On	Off	On	Off	Off	On	Off	Off
91	Off	Off	On	Off	Off	On	Off	Off
92	On	On	Off	Off	Off	On	Off	Off
93	Off	On	Off	Off	Off	On	Off	Off
94	On	Off	Off	Off	Off	On	Off	Off
95	Off	Off	Off	Off	Off	On	Off	Off
96	On	On	On	On	On	Off	Off	Off
97	Off	On	On	On	On	Off	Off	Off
98	On	Off	On	On	On	Off	Off	Off
99	Off	Off	On	On	On	Off	Off	Off
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107	Off	Off	On	Off	On	Off	Off	Off
108	On	On	Off	Off	On	Off	Off	Off
109	Off	On	Off	Off	On	Off	Off	Off
110	On	Off	Off	Off	On	Off	Off	Off
111	Off	Off	Off	Off	On	Off	Off	Off
112	On	On	On	On	Off	Off	Off	Off
113	Off	On	On	On	Off	Off	Off	Off

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Table 11-1. Dip Switch Settings for Cabinet Zones

Zone	Switch							
	1	2	3	4	5	6	7	8
114	On	Off	On	On	Off	Off	Off	Off
115	Off	Off	On	On	Off	Off	Off	Off
116	On	On	Off	On	Off	Off	Off	Off
117	Off	On	Off	On	Off	Off	Off	Off
118	On	Off	Off	On	Off	Off	Off	Off
119	Off	Off	Off	On	Off	Off	Off	Off
120	On	On	On	Off	Off	Off	Off	Off
121	Off	On	On	Off	Off	Off	Off	Off
122	On	Off	On	Off	Off	Off	Off	Off
123	Off	Off	On	Off	Off	Off	Off	Off
124	On	On	Off	Off	Off	Off	Off	Off
125	Off	On	Off	Off	Off	Off	Off	Off
126	On	Off	Off	Off	Off	Off	Off	Off
127	Off	Off	Off	Off	Off	Off	Off	Off

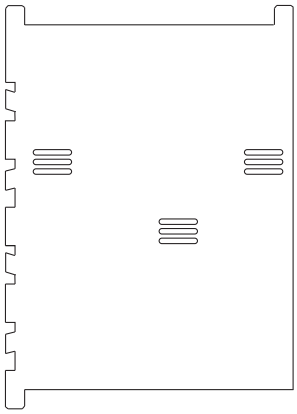
4. Slide the suture rack housing into the brackets and push the housing firmly into the frame.

Important: Be sure the loose SPC cable does not get pinched or bent while installing the suture rack housing.

5. Secure the housing to the mounting bracket using either a 3/32” Allen wrench or a Torx T15 screwdriver.
6. Pull the right rack out as far as it will go, then connect the SPC cable into the wireway connector.

Dividers

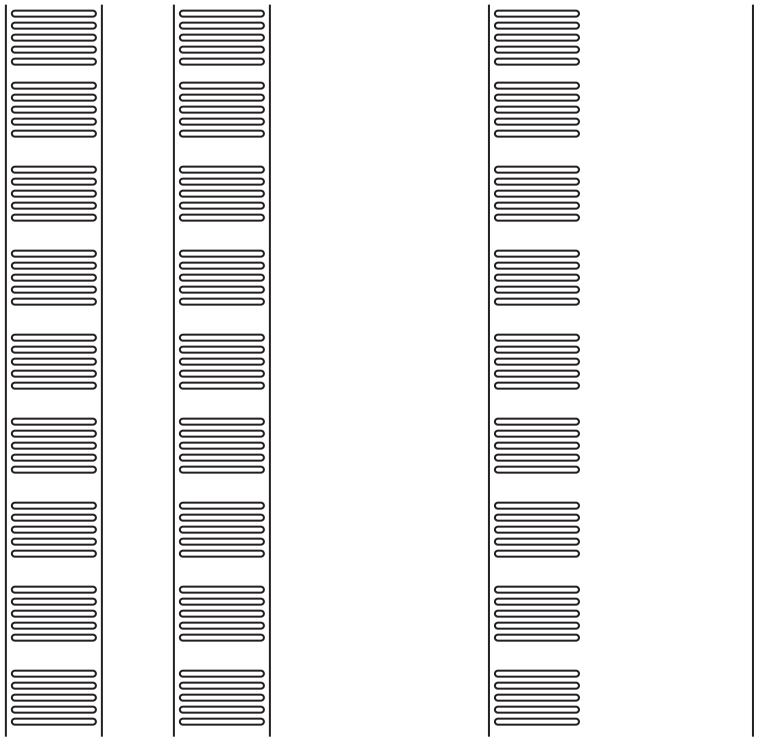
Dividers can be placed into a suture rack to help organize and separate different boxes of sutures. The dividers can be full-height or half-height. A typical full-height divider looks like this:



Please take note that the top edge of the divider has two alignment tabs while the bottom edge has only one.

Each rack has nine groupings of five slots where a divider may be installed. The top will have the slots on both sides of the rail and the bottom will have the slots only on the inside of the rack.

Suture Rack Top View **Suture Rack Bottom View**



1. Open the suture rack where the divider will be installed.
2. Hold the divider so that the side with the notched edge is facing the shelf and the edge with two tabs is facing up.
3. Angle the divider so that it fits into the rack.
4. Insert the top two tabs into the top of the rack at the desired location.
5. Insert the bottom tab into the slot, align the slots, and keep the divider straight in the rack.

Color Coding

1. Open the rack where the color coding will be installed.
2. Remove the two nuts on the inner side of the rack using a 5/16” nutdriver.
3. Remove the front panel of the suture rack.
4. Place the color coding into the slot.
5. Replace the front panel.
6. Replace the two nuts and tighten them with the 5/16” nut driver.

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Removal Procedure

1. Perform a graceful shutdown of the CT PC Box.
2. Open the door where the suture rack will be installed.
3. Pull the right rack out as far as it will go.
4. Disconnect the SPC cable from the wireway connector.
5. Remove the two screws that secure the suture rack housing from the frame using a 3/32” Allen wrench or a Torx T15 driver.
6. Remove the housing from the frame.
7. Remove the screws securing the suture rack brackets using a 3/32” allen wrench or a Torx T15 screwdriver.

LED plate

1. Pull the rack out far enough to see behind the front panel.
2. Disconnect the LED cable on the inside of the front panel.
3. Remove the two bolts securing the plate using the 5/32” nut driver.
4. Remove the plate.

LED cable

1. Pull the rack out far enough to see behind the front panel.
2. Disconnect the LED cable on the inside of the front panel.
3. Remove the cable plate from the back of the rack housing.
4. Disconnect the switchpanel cable from the switchpanel.
5. Remove the switchpanel from the rack housing.
6. Flip the switchpanel over and disconnect the LED cable.

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SPC Board and Cable

1. Pull the right-most rack forward and disconnect the SPC cable.

Figure 11-1. Remove the SPC Board Cable

2. Remove the two screws securing the rack to the housing using a 3/32” Allen wrench or a T15 Torx screwdriver.

Figure 11-2. Remove the screws securing the suture rack to the housing.

3. Remove the suture rack from the housing.

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4. Disconnect the SPC cable (1) and the switchpanel cables (2) from the SPC board.

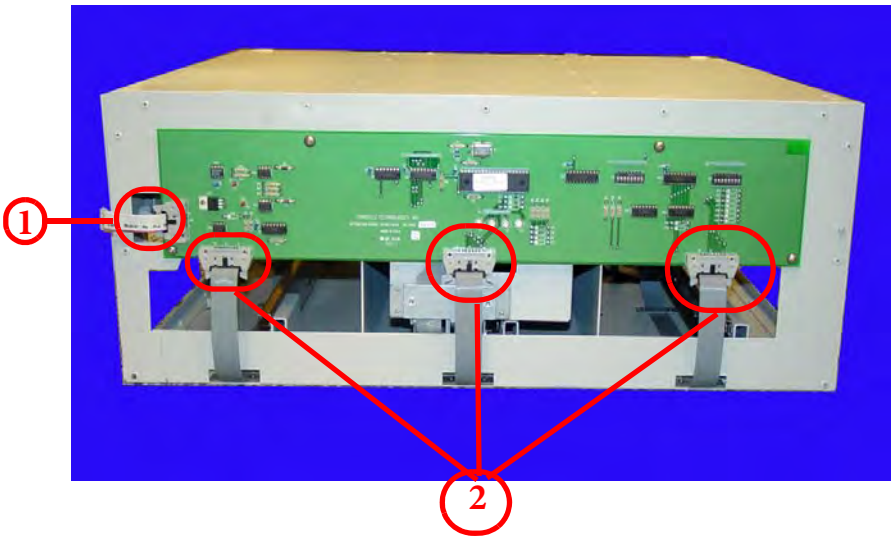

Figure 11-3. Disconnect the SPC Cable (1) and the Switchpanel Cables (2) from the SPC Board

5. Remove the four screws using a 3/32” Allen wrench.

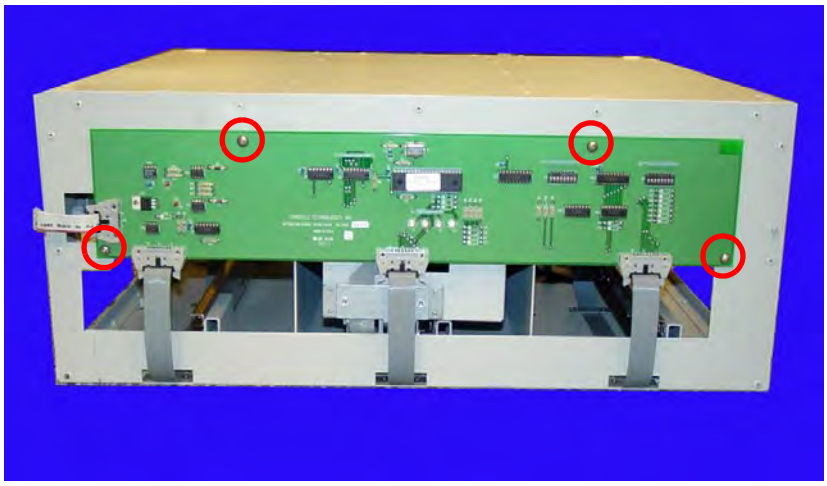

Figure 11-4. Remove the Four Screws Securing the SPC Board

6. Remove the SPC board.
7. Remove the suture rack from the cabinet.
8. Disconnect the SPC cable from the SPC board on the back of the rack.
9. Turn the suture rack on its side.
10. Remove the four screws at the bottom of the rack using a 3/32” Allen wrench Torx T15 screwdriver.
11. Remove the cable, sliding it under the two attached brackets.
12. Disconnect the switchpanel cable from the connector on the back of the re-direction board.

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Installing a G4 Console

Introduction

This procedure will guide the user through the procedures required to remove an existing CT PC box and replace it with a G4 console.

Tools Required

- Torx T10 driver
- Torx T15 driver
- Torx T20 driver
- Phillips #1 screwdriver
- Standard Blade Screwdriver
- Cam Lock Key #2036
- Cam Lock Key #2378

Remove the CT PC Box

1. Perform a graceful shutdown of the cabinet.
2. Unplug the cabinet power cord from the outlet.
3. Unplug the network cable from the back of the CT PC Box.
4. Unlock the cabinet doors using the #2036 key.
5. Remove the screws that secures the CT PC Box to the cabinet.

   Pharmacy cabinets PC box screws are accessed by opening the keyboard door and using the T15 Torx driver. [6-32x1/4 BH screws]

Figure 12-1. Pharmacy cabinet

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Supply cabinets PC box screws are accessed under the box at the front corners, using a T-10 Torx driver. [8-32x3/8 SHC screws]

Figure 12-2. Supply cabinet

a. Slowly pull the CT PC Box from the frame until the side-mounted slides lock and stop.
b. Unlock the CT PC Box cover with the cam lock key #2036.

Figure 12-3. Unlock the CTPC Box Cover

c. Remove the cover by lifting the front end and pulling away from the cabinet.
d. Disconnect the SPC cables from the PowerCom board.

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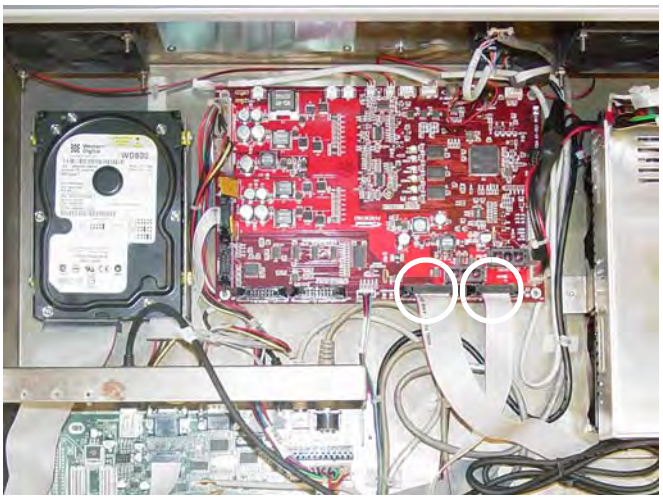

Figure 12-4. Disconnect the SPC Cables

e. Pull the SPC cables through the wireway slot on the right side of the CT PC box and remove the SPC cables from the CT PC Box.

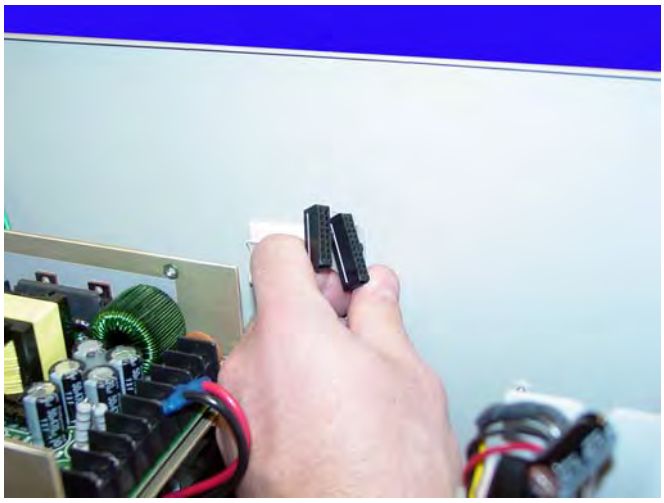

Figure 12-5. Remove the SPC cables

f. Release the CT PC Box from the slides, carefully remove it from the cabinet and set it on a flat surface.

Caution: The CT PC Box is heavy. Trying to lift or remove the box alone could result in injury. Get help from a second person to lift and remove the CT PC Box from the cabinet.

Important: The following sections cover optional equipment that may be present on any given cabinet that must be removed to access the wireway cables. A pharmacist must be present when servicing drawers with medications.

g. Remove the wireway clip and disconnect the SPC cables from the wireway. Remove and discard the cables, but keep the wireway clip.

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Prepare for Installation of the G4 Console

Install the Two-Piece Cover

Remove the innermost screw on the door hinge above the CT PC Box area. Use a Torx T20 driver.

Important: Do NOT remove the two outermost screws on the door hinge. The hinge has an inner piece that will become dislodged and fall to the bottom of the wireway if the two screws are removed. If this happens, the door will not be able to be replaced until a new piece is ordered or the wireway is completely disassembled.

Figure 12-6. Remove the innermost screw on the door hinge

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1. Place the smaller cover on the right side of the console enclosure and set it on the ridge.

Figure 12-7. Place the smaller cover in the enclosure

2. Ensure that the tab of the small cover is positioned below the rear and side flange of the frame.

Figure 12-8. Ensure the tab is below the rear and side flange

3. Secure the cover to the frame by adding a 8-32 x 3/8 flathead torx screw to the front of the cover near the wireway opening. Use a Torx T20 driver.

Figure 12-9. Secure the cover with the screw provided

4. Place the larger cover on the left side of the console enclosure and set it on the ridge.

Figure 12-10. Place the large cover into the frame opening

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5. Ensure that the tab of the large cover is positioned below the rear and side flange of the frame.

Figure 12-11. Ensure that the tab is below the rear and side flange on the frame

6. Attach the two sections of the cover by adding two screws to the top front portion of the cover. Use a Torx T15 driver.

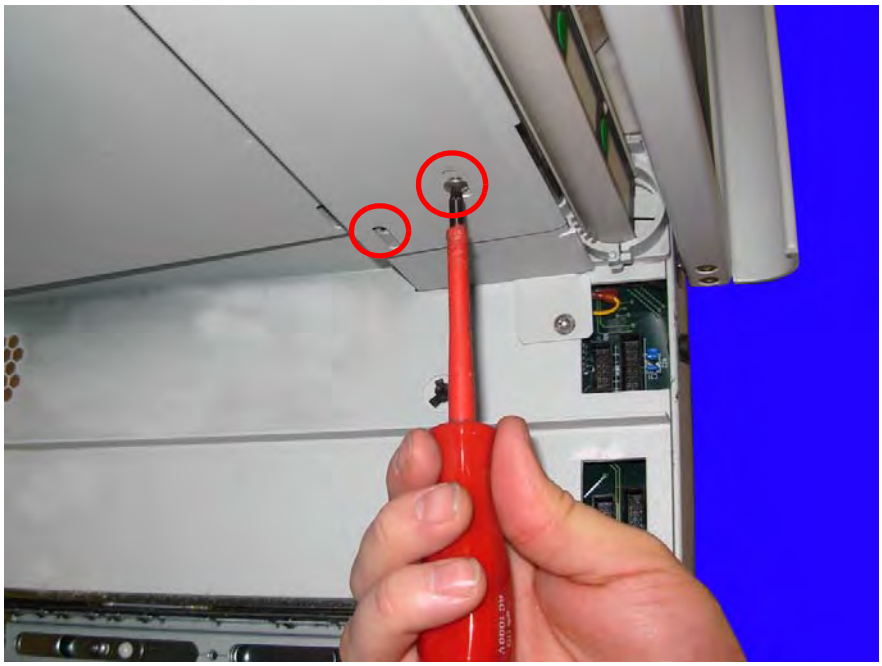

Figure 12-12. Add a screw to join the two portions of the cover

7. Secure the large section of the cover to the frame by attaching the screw that was previously removed from the door hinge. There is also a spare screw in the upgrade kit.

Figure 12-13. Secure the large portion of the cover by replacing the screw

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8. Add three more screws, as shown in Figure 12-14 on page 12-9, to complete the joining of the two cover pieces. Use a Torx T15 driver.

Note: Do not tighten any of the screws until all of the screws are installed.

Figure 12-14. Add three more screws to secure the lid pieces

Add the Ribbon Cable

1. Add the new ribbon cable, plugging in both connectors to the wireway.

Figure 12-15. Place the ribbon cables into the wireway

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2. Secure the ribbon cable connections to the wireway using a cable clip. Place the clip between the two cables and snap it into place.

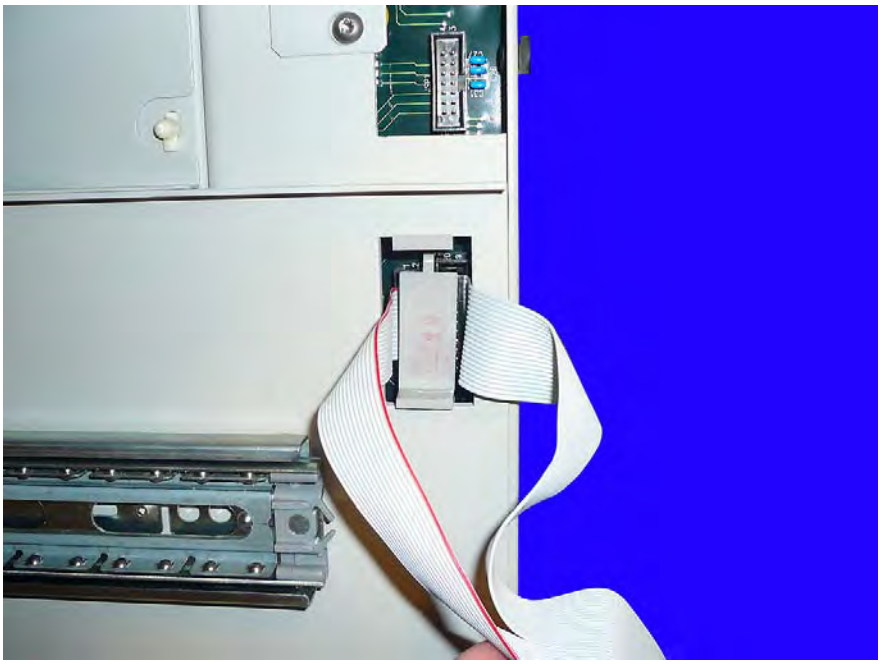

Figure 12-16. Add the wireway clip

Important: If the clip is not installed, the ribbon cable can very easily come unplugged and/or damaged during use.

Important: The cable clip secures the connectors, not the cable itself. Ensure that the cable is not caught underneath the clip when the clip is installed or the cable may become damaged.

3. Move the wireway cable out of the opening and secure it so that it does not get in the way when installing the G4 console.

Figure 12-17. Move the wireway cable and secure it outside of the console opening

Connect the E-Box Battery

1. Remove the two screws that secure the lid on the E-Box.

Figure 12-18. Remove the two screws that secure the E-Box lid

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2. Remove the E-Box lid.
3. Check the velcro straps that secure the battery and ensure they are secure. Tighten the straps if they are loose.

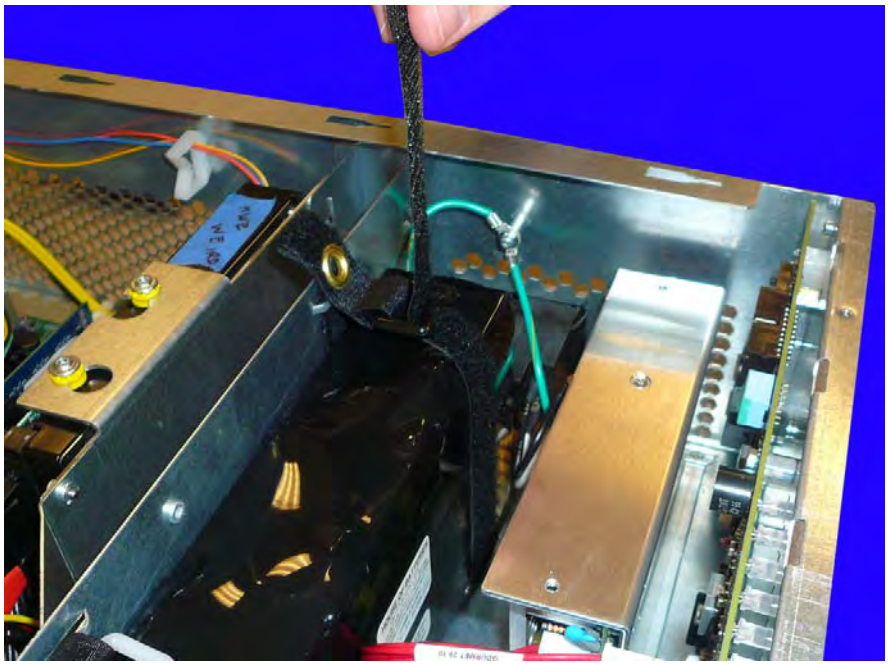

Figure 12-19. Tighten the velcro straps around the battery

4. Connect the battery cable to the PowerCom4 board.

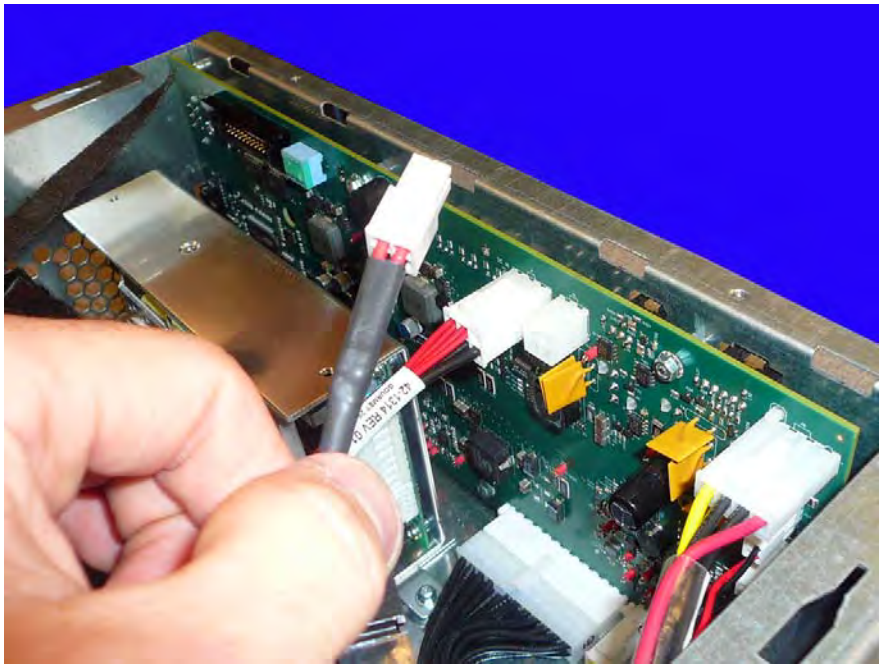

Figure 12-20. Connect the battery to the PowerCom4 board

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5. Check the other connections to the PowerCom4 board to ensure they have not come loose during transport.
6. Replace the lid and replace the screws that secure the lid to the E-Box.

Install the G4 Console

Insert the G4 Console into the Cabinet Frame

Important: The G4 console is heavy and requires two people to lift it into place. Trying to lift the console into the cabinet with just one person can result in injury or damage to the console.

1. Lift the G4 console onto the rails in the cabinet and slide the console in until it clicks into place.

Figure 12-21. Lift the console with E-Box onto the rails

Note: If there is interference between the G4 console and the top of a previously installed supply drawer, verify that the correct mounting brackets were used for the supply drawer. A supply drawer installed below the console should use part numbers 53-3043 (left bracket) and 53-3044 (right bracket). For instructions to remove the drawer and reinstall it with the correct brackets, refer to "Removal Procedure" on page 7-15 and "Installation Procedures" on page 7-5.

2. Pull the console back out until the rails stop.
3. Connect the wireway cable to the E-Box.

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4. Secure the connection with the screws provided. Use a #1 Phillips screwdriver.

Figure 12-22. Connect the wireway cable to the E-Box

5. Attach the network cable to the LAN port provided

Figure 12-23. Attach the network cable

Close the G4 Console and Power on the Cabinet

1. Carefully slide the G4 console with E-Box into the cabinet.
2. Open the keyboard door.
3. Remove the filter access panel.

Figure 12-24. Remove the filter access panel

4. If the filter is not in place, install the filter. Slide the filter behind the filter holders.

Figure 12-25. Add the filter

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5. Add the M4x14 security screw to the top of the printer enclosure, securing it to the console cover.

Figure 12-26. Add the M4x14 security screw

6. Lock the G4 console into place using the #2378 key. Turn the key vertical to lock the console into place.

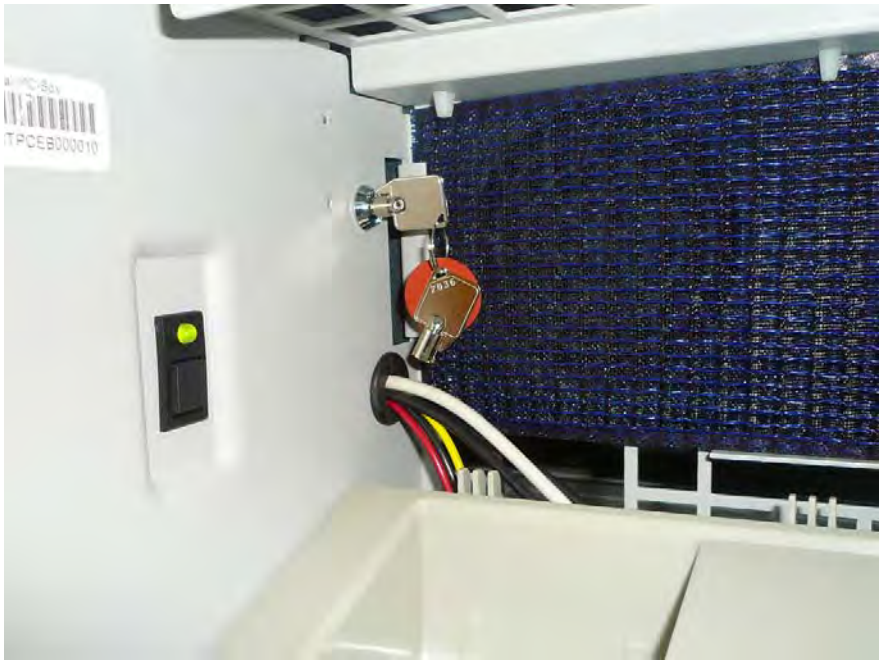

Figure 12-27. Power on the cabinet

7. Replace the filter access panel.

8. Power on the cabinet.
9. Close the keyboard door.
10. Configure the cabinet as needed.

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G4 PC Box Service

1. Open the printer door.
2. Perform a graceful shutdown of the PC box.
3. Use key #2378 and unlock the PC box.

Figure 13-1. Unlock the PC console

4. Pull the PC box from the console.

Remove the Electronics Tray from the CT PC Console

If two people are not present to lift the CT PC console with E-Box into the frame, remove the E-Box from the console before lifting the console into the cabinet frame. Otherwise, proceed to the next section.

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1. Remove the two screws on each side of the E-Box that secure the E-Box to the bottom of the CT PC console.

Figure 13-2.

2. Remove the three power cables that are attached to the right side of the E-Box.

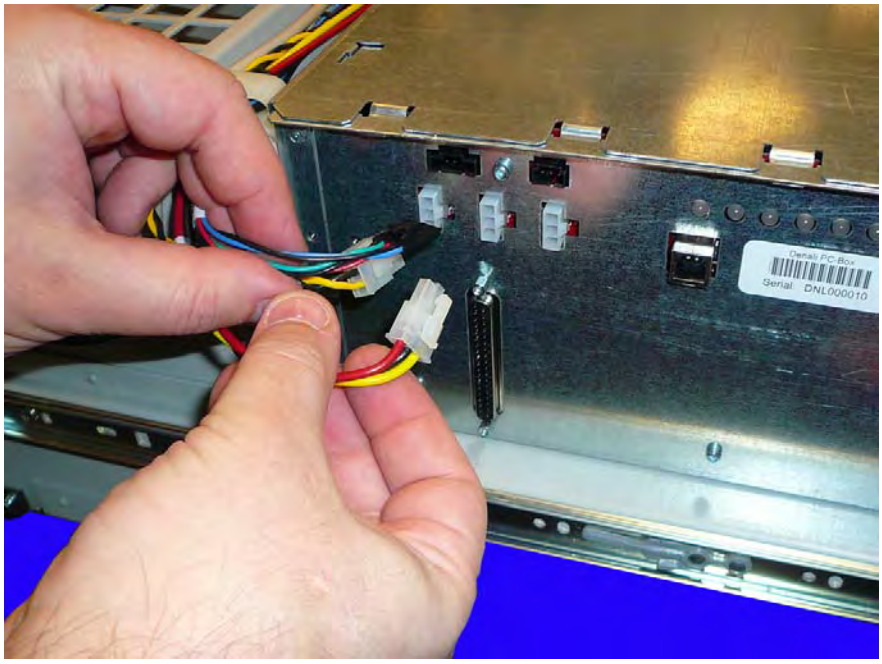

Figure 13-3. Disconnect the power cables

3. Remove all the cables from the left-hand side of the E-Box frame, including all USB, sound, video and network cables.

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Note: Take note of the routing of all cables and which cable guide clips are used for which cables. When replacing these cables, they should be routed the same way they were removed.

Figure 13-4.

4. Loosen but do not remove the screw on the side of the console frame.

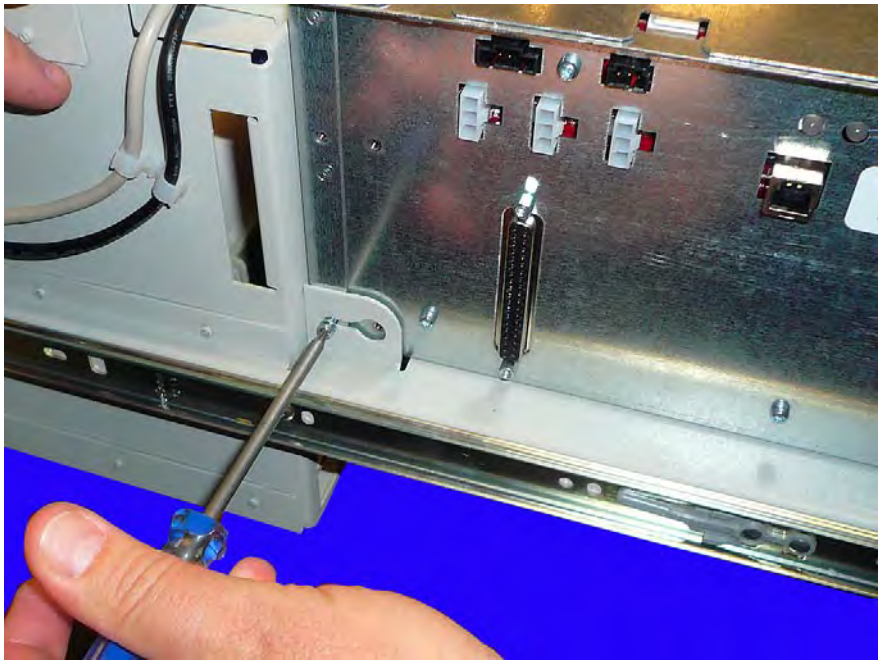

Figure 13-5. Loosen the screw

5. Slide the E-Box away to the left, then lift and remove it from the CT PC console.

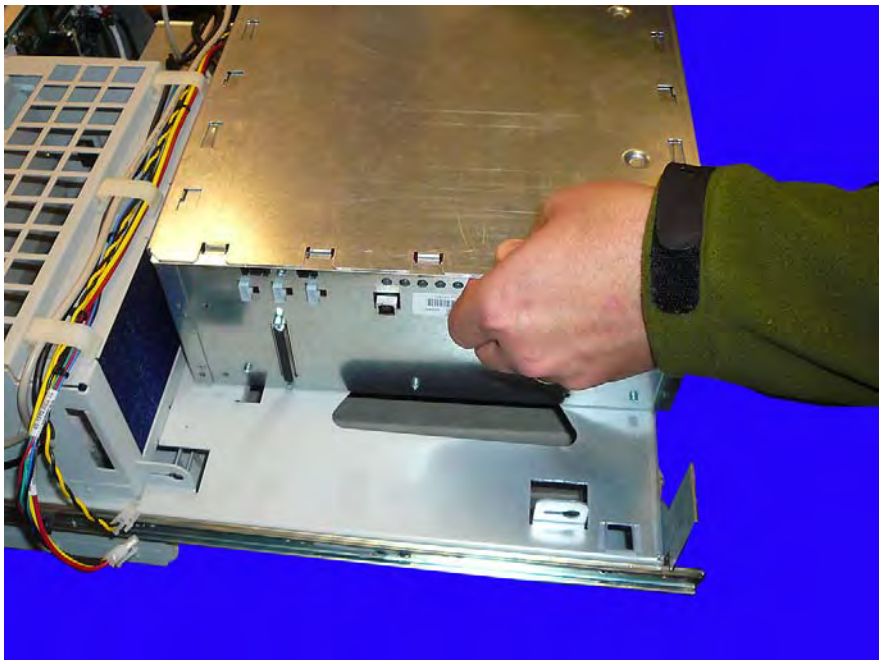

Figure 13-6. Remove the E-Box from the frame

6. Push down on the two side clips that secure the PC Box frame to the console and pull the frame from the console.

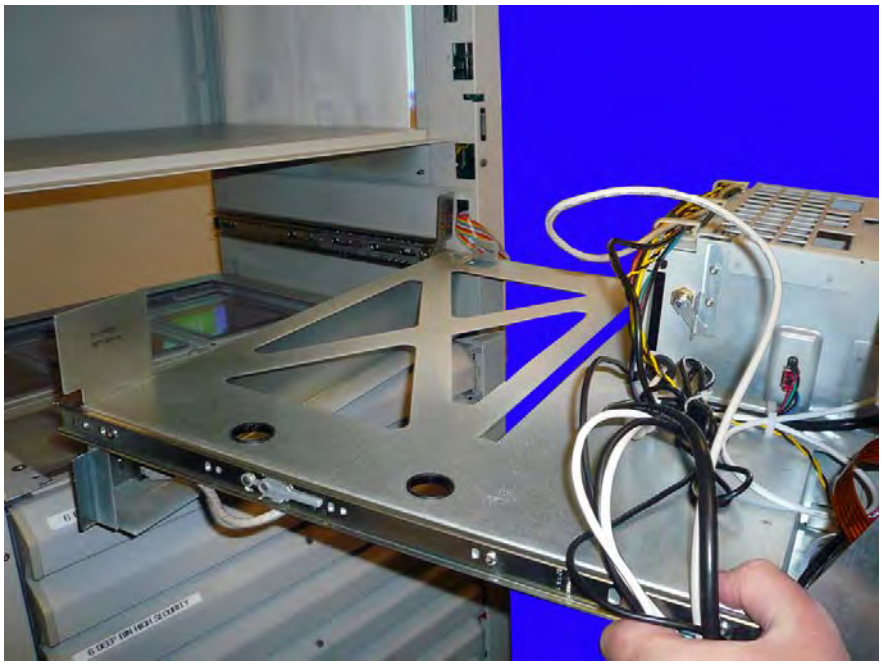

Figure 13-7. Remove the frame from the console

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Install the E-Box onto the Console

1. Pull the console as far out as it goes on the rails and slide the E-Box in at an angle from the left side to install it on the console frame.

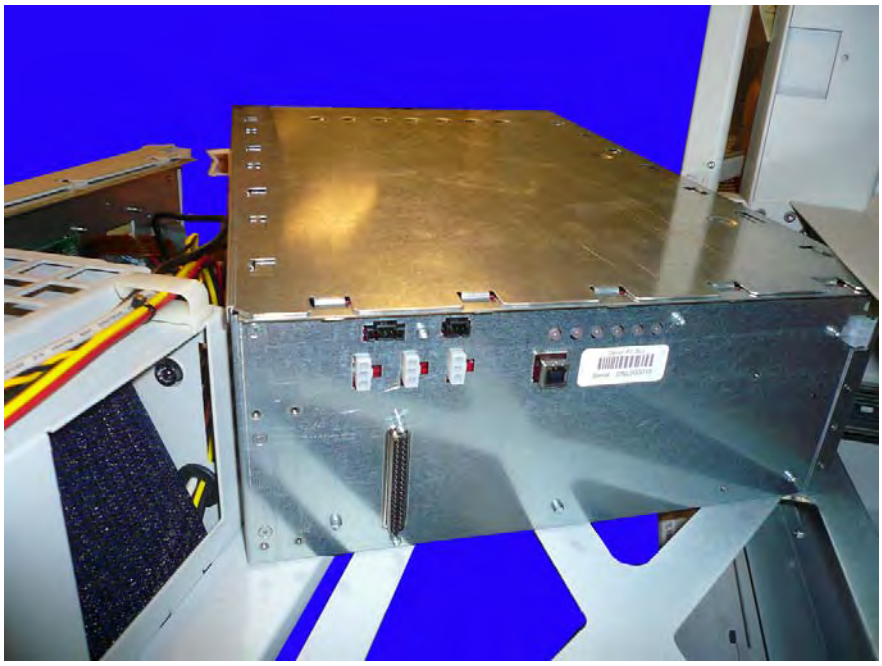

Figure 13-8.

2. Straighten out the E-Box and slide it into place on the CT PC console frame.

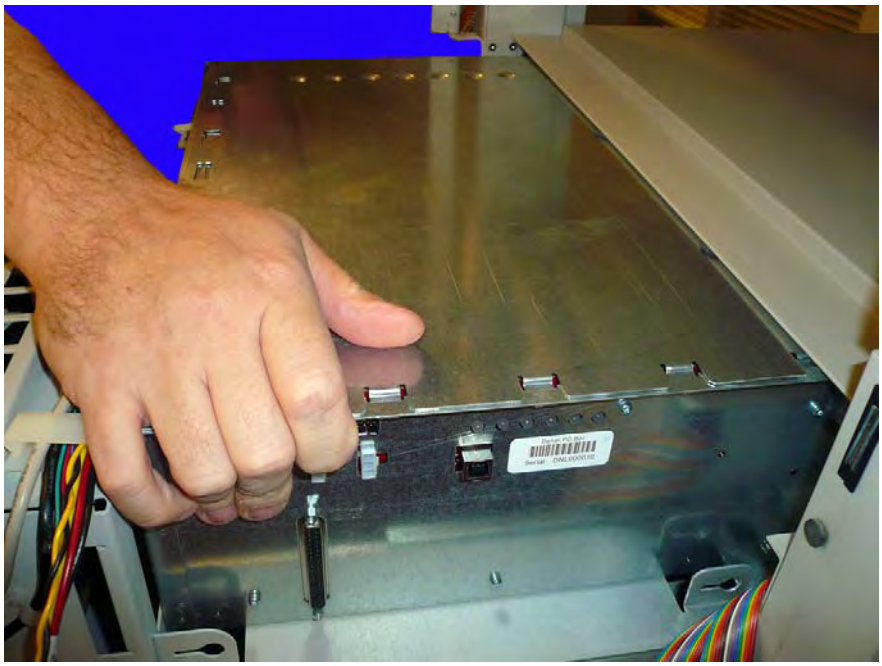

Figure 13-9.

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3. Replace and tighten the screws that secure the E-Box to the console frame.

Figure 13-10.

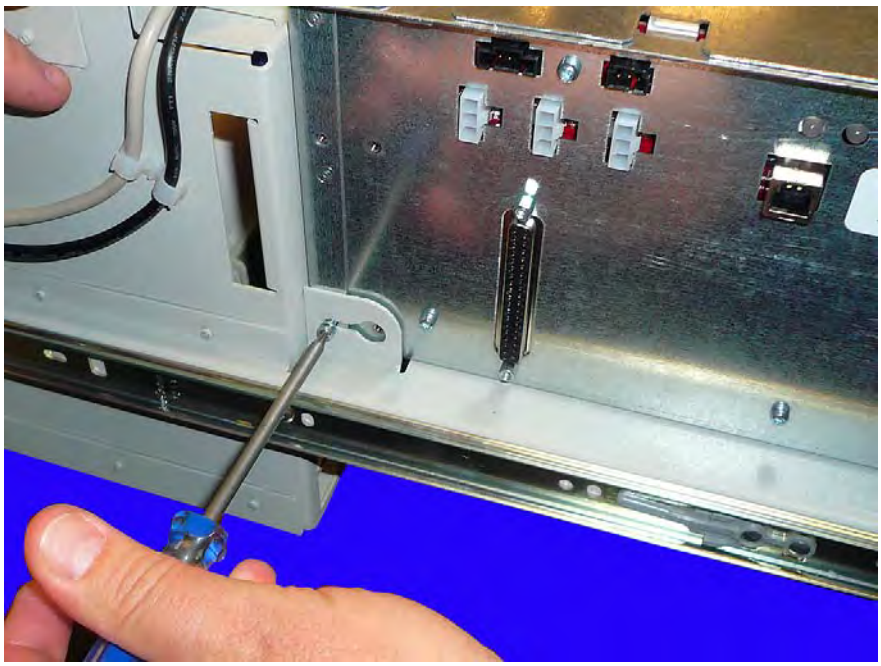

Figure 13-11.

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4. Reconnect the three cables on the right-hand side of the E-Box. The location of the two bottom molex connectors is unimportant. The connections are the same and supply identical power.

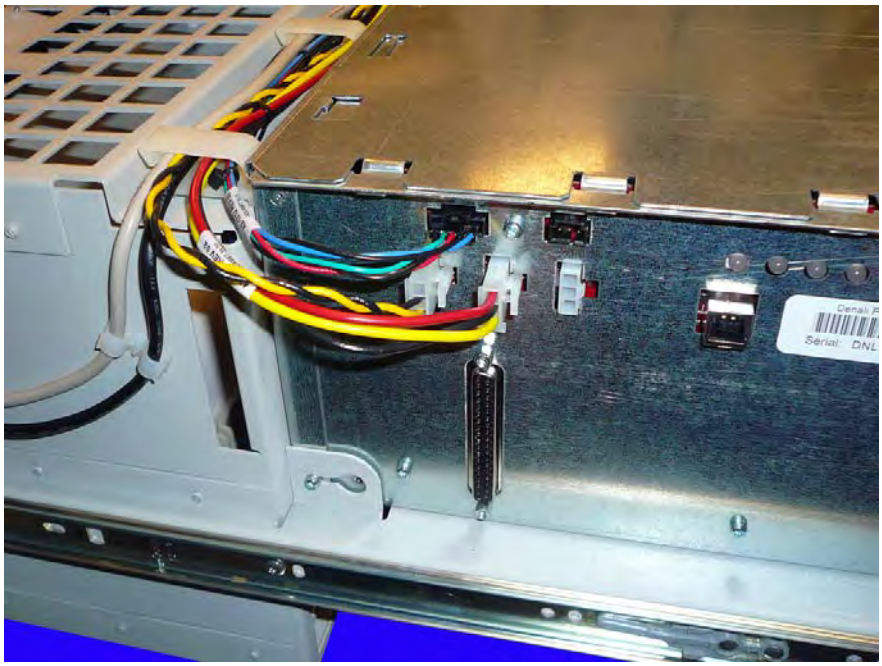

Figure 13-12.

5. Reconnect the USB, power, sound and network cables on the left-hand side of the E-Box. refer to Figure 13-13 to ensure that the cables are routed in the proper locations.

Figure 13-13.

Prepare PC Box Console with E-Box

1. Connect the ribbon cable to the E-Box.
2. Secure the connection with the screws provided. Use a Torx T10 driver.

Figure 13-14.

Add Knock-out Safety Plate

1. If the safety plate on the back of the console has not been installed, add it before completing the rest of the install.

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2. Place the plate on the left rear of the console and secure it using the screws provided. Use a Torx T-10 driver.

Figure 13-15.

3. If the security plate on the right rear of the console is not attached, place the plate onto the console and secure it with the screws provided. Use a Torx T-10 driver. Attach the network cable .

Figure 13-16.

Add the Flex Lock or External Return Bin (Optional)

1. Feed the extender cable up through the opening in the right rear of the CT PC console.

Figure 13-17.

2. Connect the extender cable to the E-Box.

Figure 13-18.

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3. Feed the Flex Lock or External Return Bin (ERB) cable through the punch-out hole on the underside of the CT PC console.
4. Attach a strain relief to the cable. Place the strain relief six to nine inches from the connector.

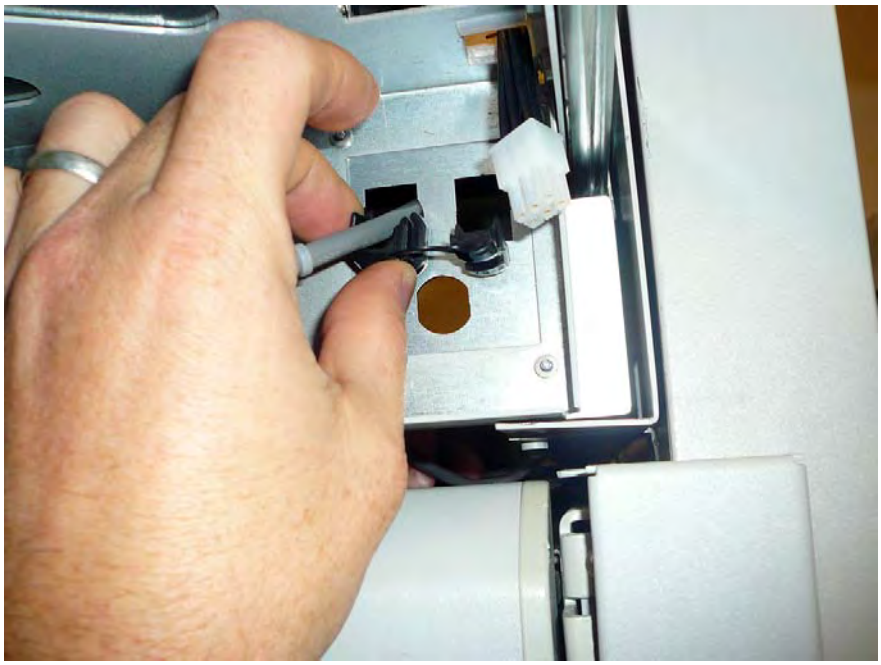

Figure 13-19.

5. Snap the strain relief into place and ensure that it is secure on the cable.

Figure 13-20.

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6. Snap the strain relief into the rounded punch-out on the underside of the console tray.

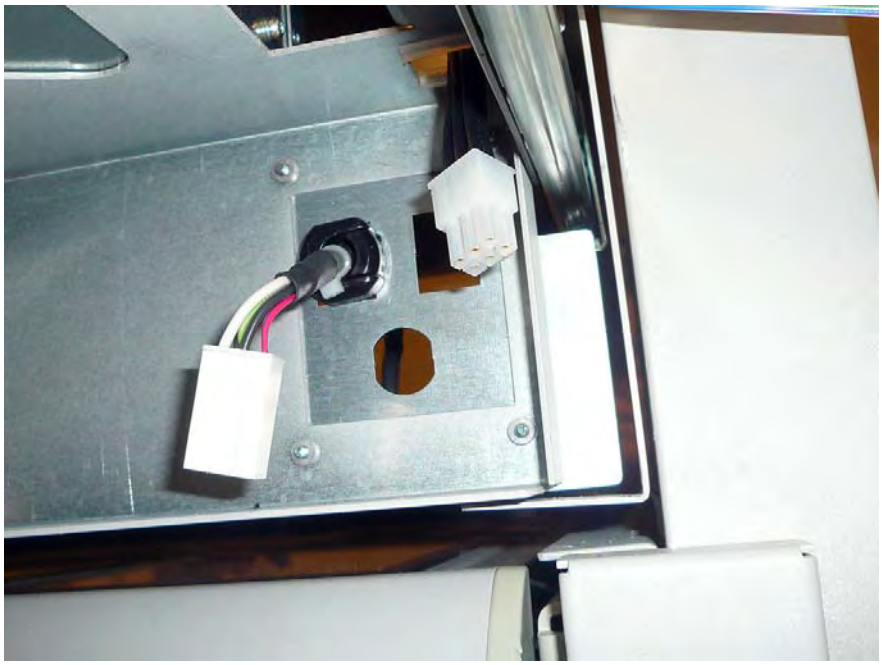

Figure 13-21.

7. Connect the Flex Lock or ERB cable to the extender.

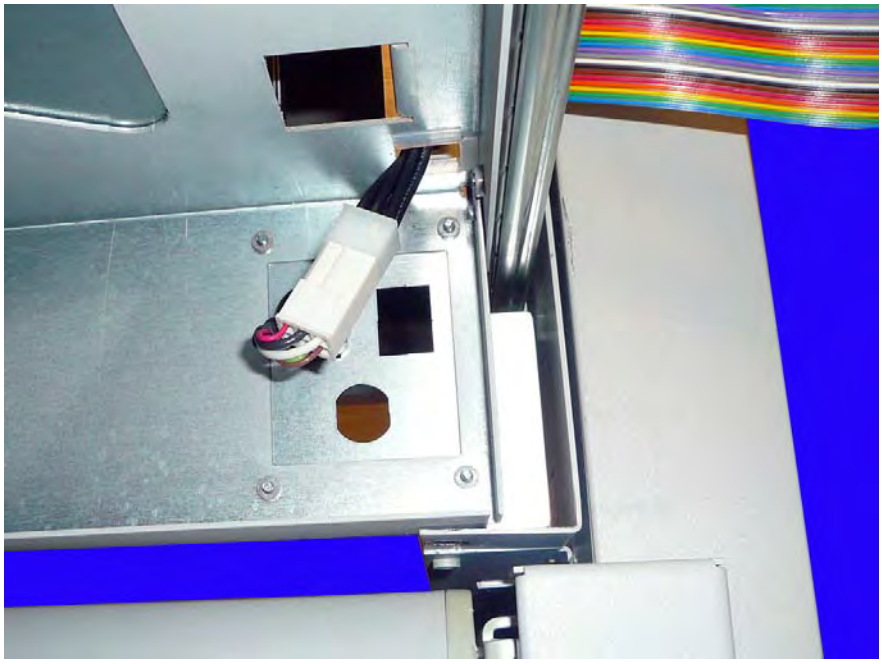

Figure 13-22.

8. Mount the Flex Lock or ERB according to the facility request.

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Remove and Replace the LCD Touch Screen

LCD Touch Screen Removal

1. Open the keyboard/printer door.
2. Perform a graceful shutdown of the PC box.
3. Remove the filter access door.

Figure 13-23. Removing the filter access door

4. Remove the screw from the top surface of the access area.

Figure 13-24. This screw must be removed before moving the CT PC box

5. Use key #2378 and unlock the CT PC box.

Figure 13-25. Unlocking the PC Box

6. Pull the system out enough to gain easy access to the rear of the LCD touch screen panel.

Figure 13-26. Pull the PC Box only far enough to gain sufficient access

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7. From the rear of the LCD touch screen panel, disconnect the four cables attached (HDMI, Mini USB, Power 1 and Power 2).

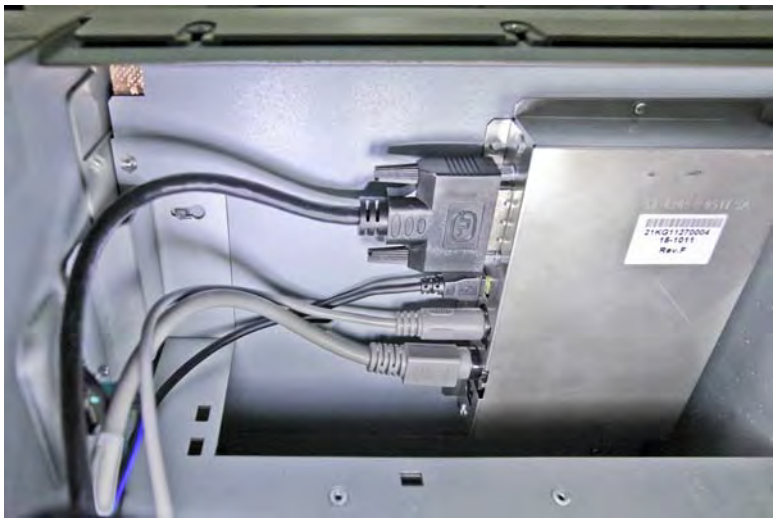

Figure 13-27. Showing the four leads that must be removed from the LCD touch screen panel

Note: There are two power cables; one for the LCD display, one for the touch screen. These have unique pin patterns, but care must still be taken not to damage the connectors by forcing them into the incorrect location. Note that the lowest socket on the LCD panel receives the power lead with a flat edge in the connector body.

8. Remove the two TORX screws from the left rear of the LCD panel (to the right when viewed for the angle required to access).

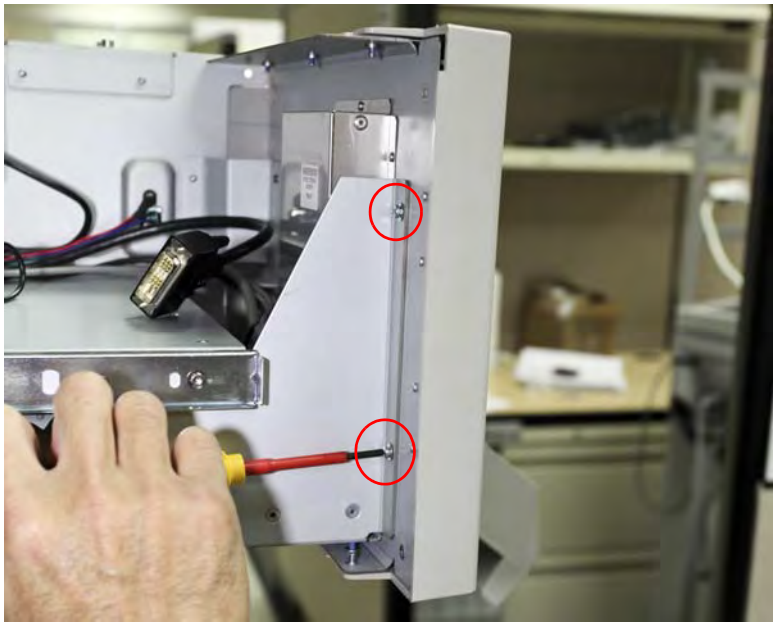

Figure 13-28. Remove the screws that secure the LCD touch screen panel assembly

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9. Support the LCD touch screen assembly and slide it away from the keyboard assembly (to the right when viewed for the angle required to access) to disengage it from the keyhole fasteners on the right-rear of the assembly.

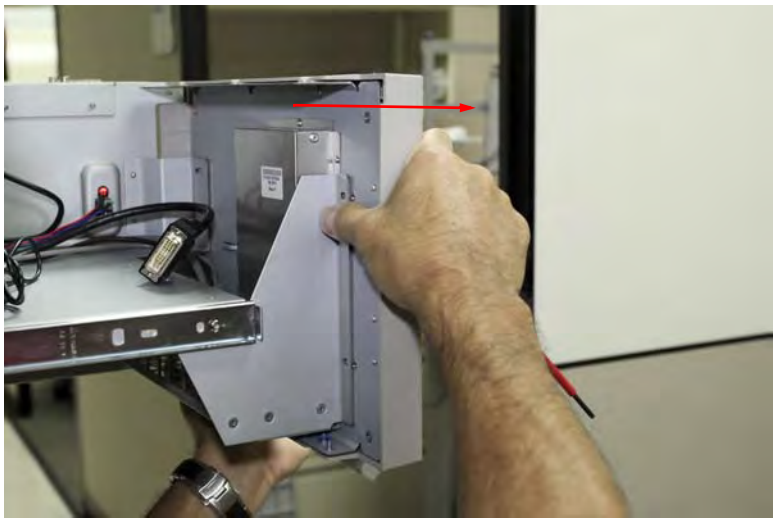

Figure 13-29. Carefully disengage the panel from the keyhole fasteners

Figure 13-30. Showing the male half of the keyhole fastener, located on the rear of the LCD touch screen assembly, shown after removal

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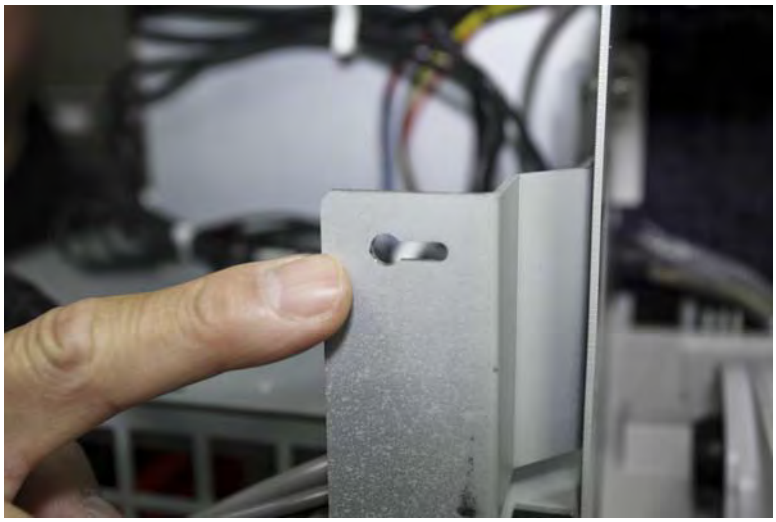

Figure 13-31. They female half of the keyhole fastener, shown after panel removal, from the front

LCD Touch Screen Replacement

Replacement of the LCD touch screen panel assembly is the reverse of removal. Care must be taken to correctly align the keyhole fasteners or damage to the chassis and panel may occur. The note below is more important during replacement.

Note: There are two power cables; one for the LCD display, one for the touch screen. These are unique, but care must be taken not to damage the connectors by forcing them into the incorrect location. Note that the lowest socket on the LCD panel receives the power lead with a flat edge in the connector body.

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Remove and Replace the Keyboard and Printer Panel

Keyboard and Printer Panel Removal

1. Perform a graceful shutdown of the PC box.
2. Unlatch the printer panel via the latch at the top of the panel, and carefully rotate the panel forward. It will rest safely in the lowered position.

Figure 13-32. Unlatch the keyboard panel...

Figure 13-33. ...and carefully lower it forward

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3. Remove the rear panels of both printers, use a thumb to push the latch forward.

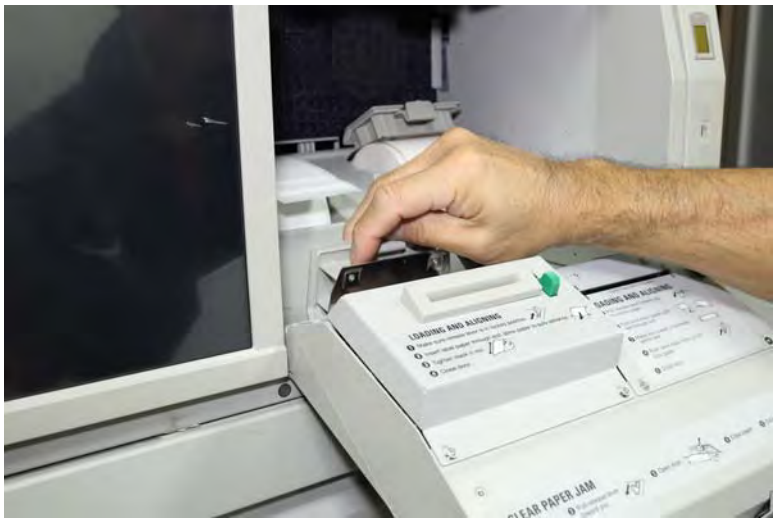

Figure 13-34. Removing rear printer panel. Note position of thumb on latch

Figure 13-35. Detail of latch to release rear printer panel

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4. Remove the four TORX fasteners from the right printer to remove it.

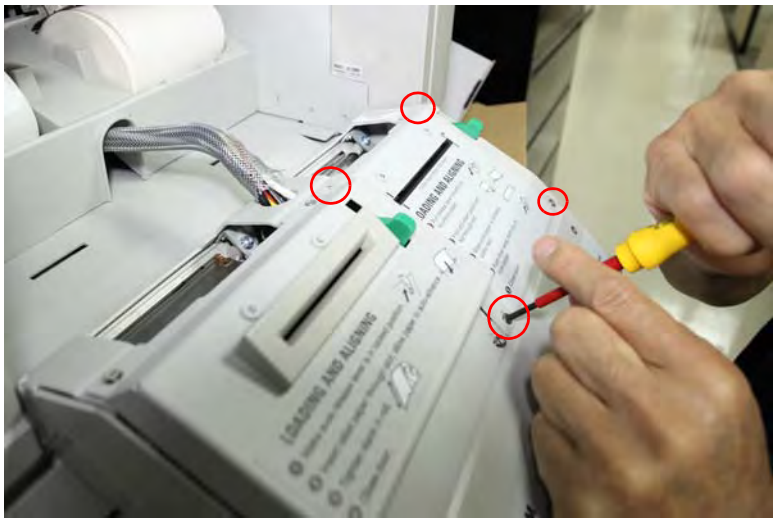

Figure 13-36. Remove the four screws from the rear of the right printer

5. Rotate the right printer forward to gain access to the connections on the rear.

Figure 13-37. Gaining access to the right printer connections

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6. Remove the mini USB cable from the right printer.

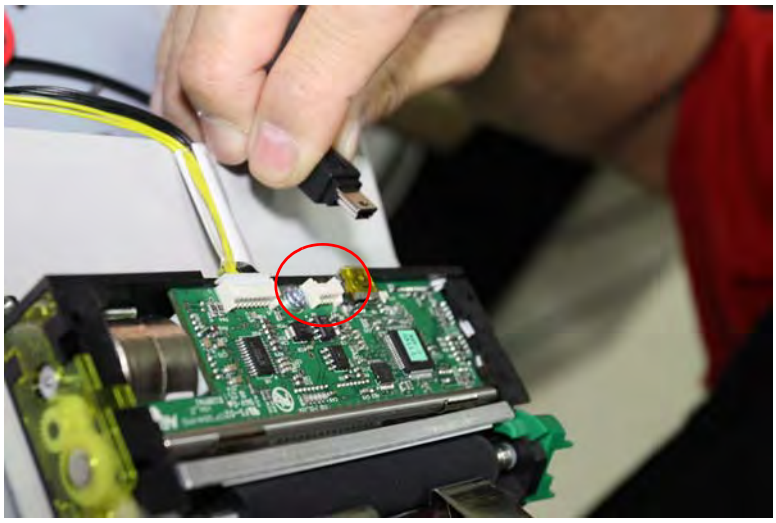

Figure 13-38. Removing the Mini USB cable from the right printer

7. Remove the data cable from the right printer.

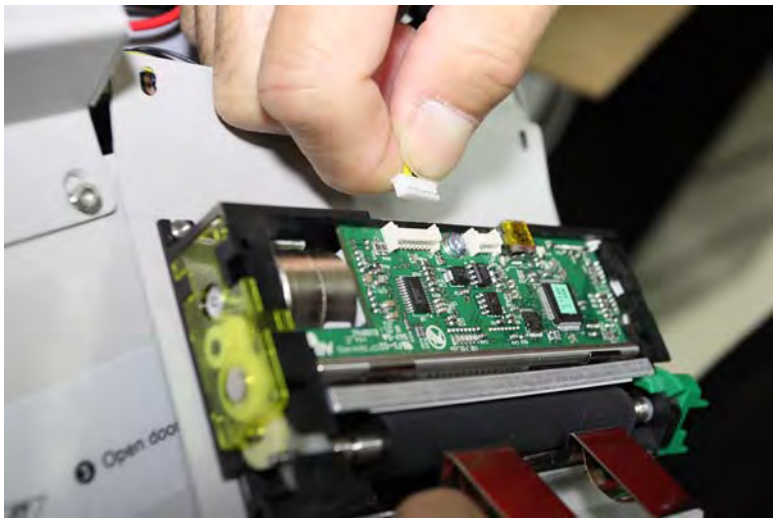

Figure 13-39. Carefully remove the data cable from the right printer

8. Remove the unit and carefully set aside.
9. Remove the screws from the left printer. They are in the same relative location on the left printer as the right printer.
10. Rotate the panel forward to gain access to the connections in a similar fashion as just used to access the right printer connections.

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11. Remove the mini USB cable, but from the chassis circuit board, not the printer board.

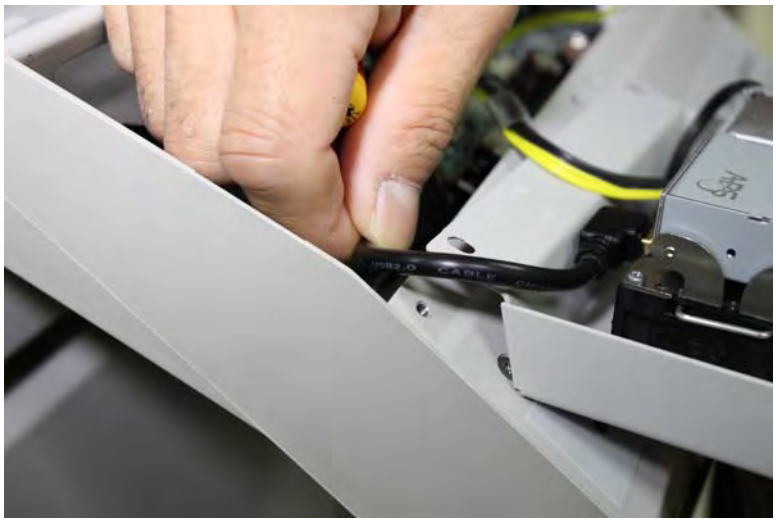

Figure 13-40. Removing the Mini USB cable for the left printer

12. Remove the data cable from the chassis circuit board, not the printer board

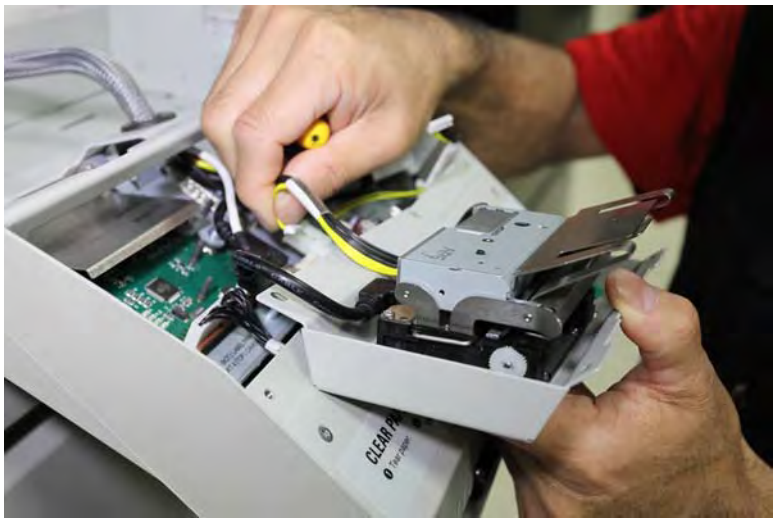

Figure 13-41. Removing the data cable for the left printer

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13. Remove the grounding cable from the keyboard chassis.

Figure 13-42. Be careful not to allow the fastener from the grounding strap to fall into the chassis after removal

14. Remove the main power cable from the keyboard chassis circuit board.

Figure 13-43. The main power lead is the largest cable of the cable-bundle

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15. Remove the secondary power cable from the keyboard chassis. This cable is considerably smaller and more fragile than the main power cable, use care.

Figure 13-44. Use care removing the secondary power cable

16. Remove the mini USB cable from the keyboard chassis circuit board.

Figure 13-45. Removing the Mini USB lead from the main circuit board in the chassis

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17. Remove the speaker cable from the keyboard chassis circuit board. The speaker connection is hidden under the sheet metal of the chassis.

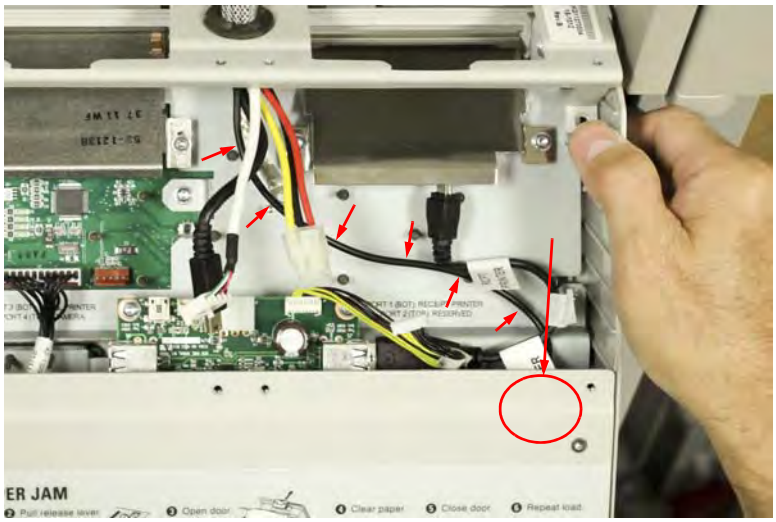

Figure 13-46. The circle highlights the location of the speaker connection

18. Cut the cable tie securing the power/data/USB cable bundle.

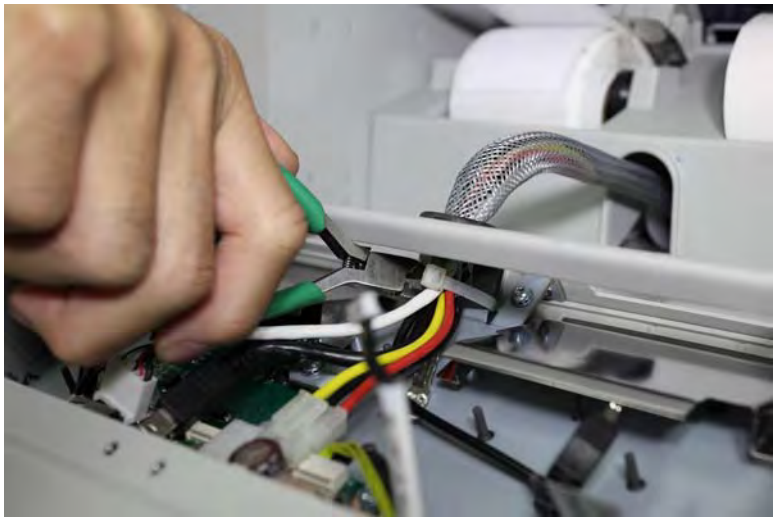

Figure 13-47. Removing the strain-relief zip-tie

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19. Remove the screws holding the keyboard chassis onto the hinge. There is one screw on the left and right, and one in the center. The keyboard chassis should remain caught on the hinge pins, but exercise caution.

Figure 13-48. Removing fastener on the right

Figure 13-49. Removing the fastener in the center

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20. Carefully move the chassis to clear the hinge pins, to remove the chassis. GENTLY pull the plastic sides of the chassis apart to help clear the hinge pins.

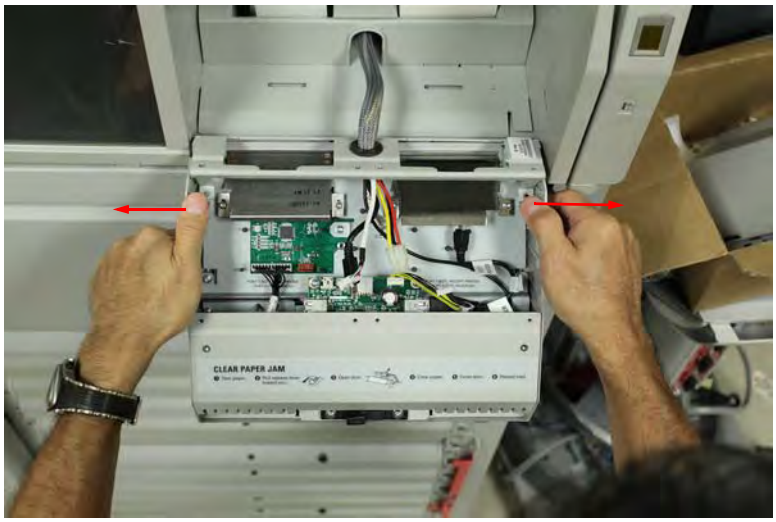

Figure 13-50. Removing the keyboard and printer chassis

This concludes removal of the printer/keyboard panel.

Keyboard and printer Panel Removal

Replacement of the Keyboard and Printer Panel is the reverse of removal.

Close the CT PC Console and Power on the Cabinet

1. Carefully slide the CT PC console with E-Box into the cabinet.

2. Open the keyboard tray. If the filter is not in place, add the filter to the keyboard tray. Slide the filter behind the filter holders.

Figure 13-51.

3. Lock the CT PC console into place using the key provided. Turn the key vertical to lock the E-Box into place.

Figure 13-52.

4. Power on the unit.

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5. Configure the unit as needed.

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E-Box Service Guide

Introduction

This procedure will guide the user through the procedures required to remove a G4 E-Box and replace any FRU parts within the E-Box.

Tools Required

- Torx T10 driver
- Torx T15 driver
- Torx T20 driver
- Phillips #1 screwdriver
- Standard Blade Screwdriver

Open the E-Box

1. Remove the three screws that secure the E-Box lid.

Figure 14-1. Remove the screws that secure the E-Box lid

2. Using the finger holds in the lid, pull the lid forward and lift it to remove it from the frame.

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3. Set the lid and the three screws aside.

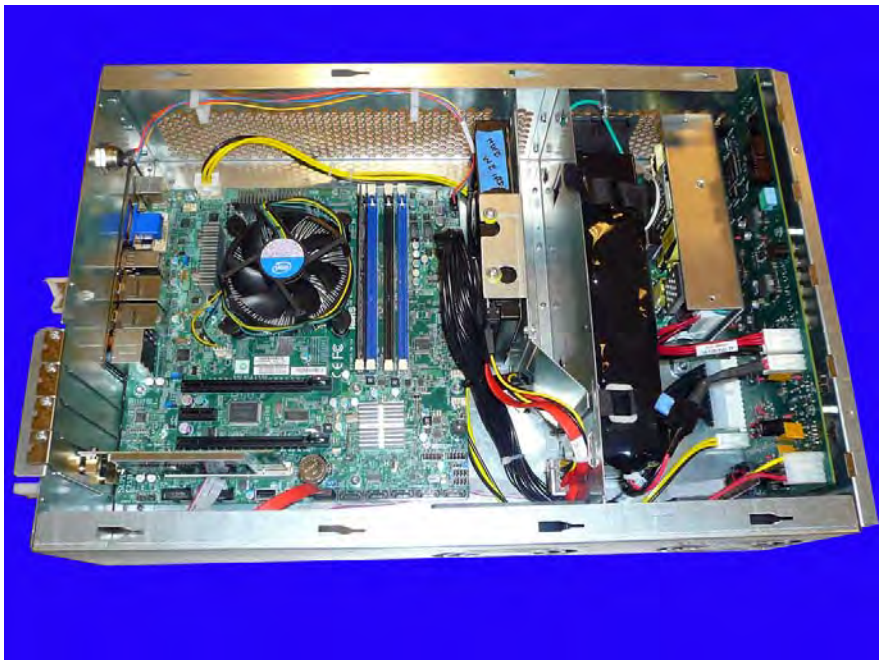

Figure 14-2. The CTPC console E-Box with the lid removed

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Remove/Replace the Hard Drive

Remove the Hard Drive

1. Remove the data and power cables from the hard drive.

Figure 14-3. Disconnect the data and power cables from the hard drive

2. Loosen but do not remove the screw that connects the hard drive plate to the E-Box wall.

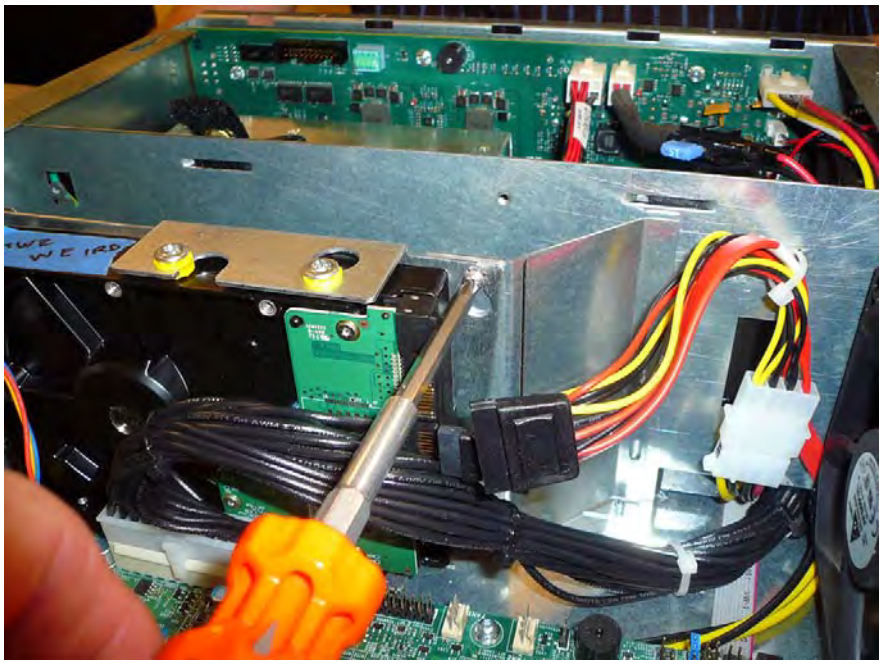

Figure 14-4. Loosen the screw that secures the hard drive to the E-Box wall

3. Lift the hard drive up, pull it away from the drive all, and remove it from the E-Box.

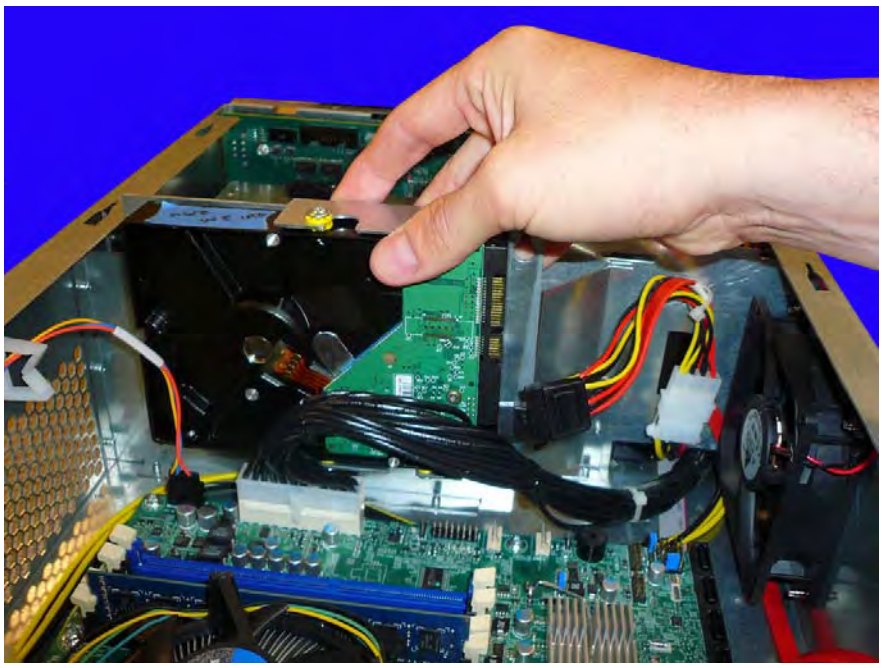

Figure 14-5. Remove the hard drive

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Replace the Hard Drive

1. Set the hard drive into place inside the E-Box. Make sure not to pinch any wires that may be present inside the E-Box.

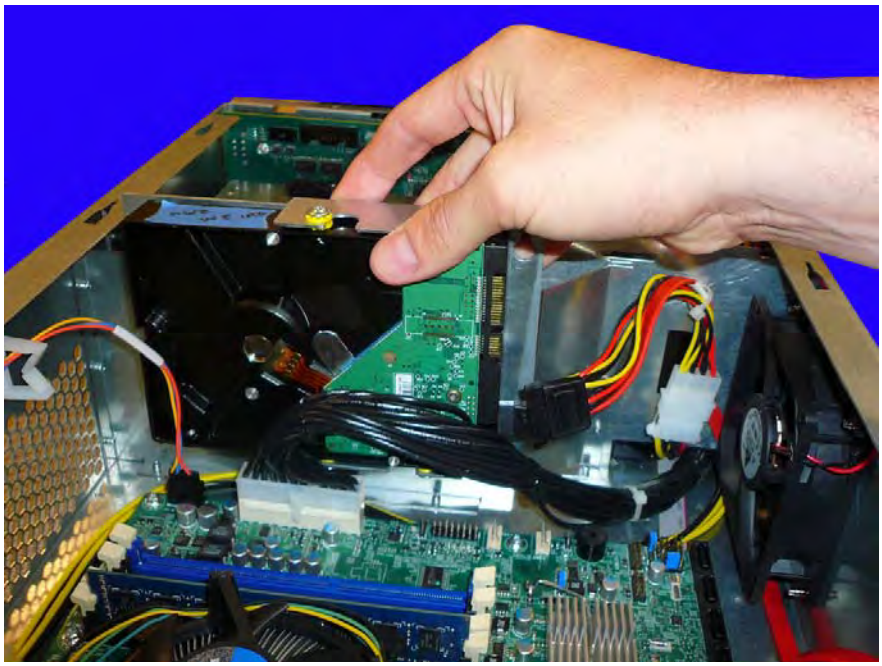

Figure 14-6. Replace the hard drive

2. Tighten the screw that connects the hard drive plate to the E-Box wall.

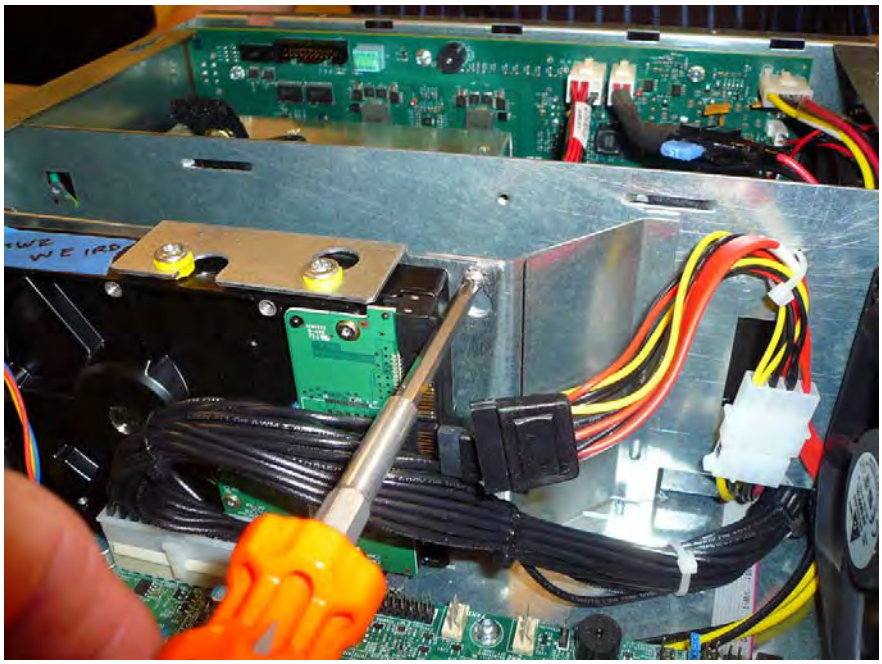

Figure 14-7. Tighten the screw that secures the hard drive to the E-Box wall

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3. Replace the data and power cables to the hard drive.

Figure 14-8. Connect the data and power cables for the hard drive

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Remove/Replace the Fans

Remove the Fans

1. Remove the four screws that secure each cooling fan to the E-Box.

Figure 14-9. Remove the screws securing the fans to the E-Box

2. Disconnect the fan cables from the PowerCom4 board.

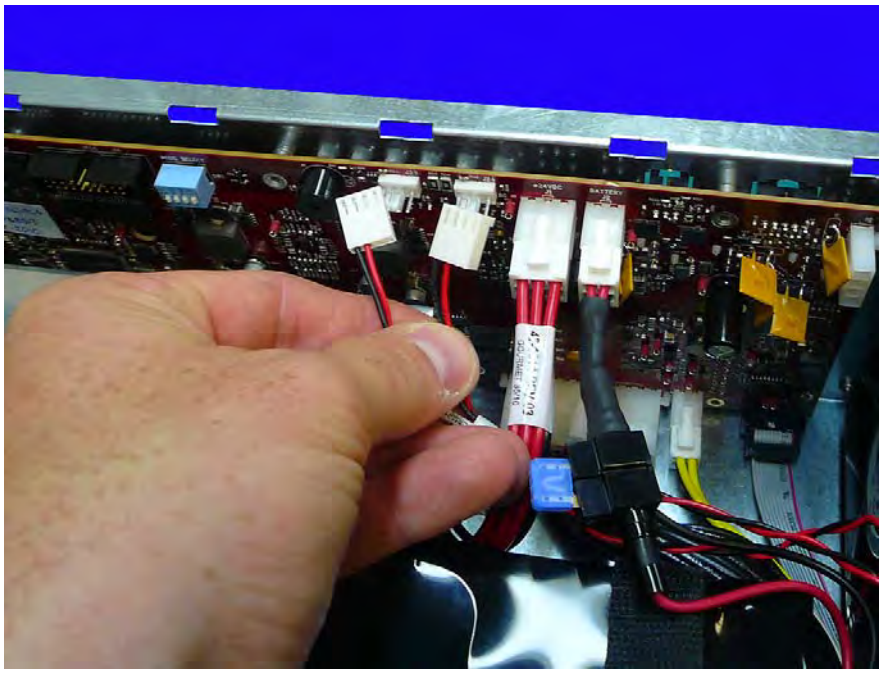

Figure 14-10. Disconnect the fan cables from the PowerCom4 board

3. Remove the fans from the E-Box.

Replace the Fans

1. Hold each fan in place inside the E-Box.

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2. Replace the four screws that secure each cooling fan to the E-Box.

Figure 14-11. Replace the screws securing the fans to the E-Box

3. Connect the fan cables to the PowerCom4 board.

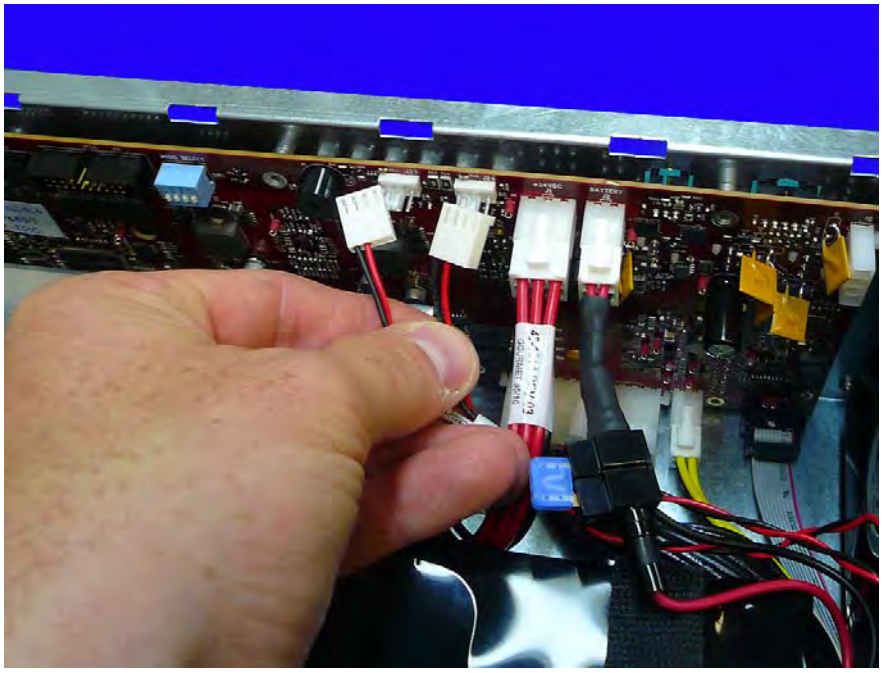

Figure 14-12. Connect the fan cables to the PowerCom4 board

Remove/Replace the Battery

1. Remove the velcro straps that secure the battery to the E-Box frame.

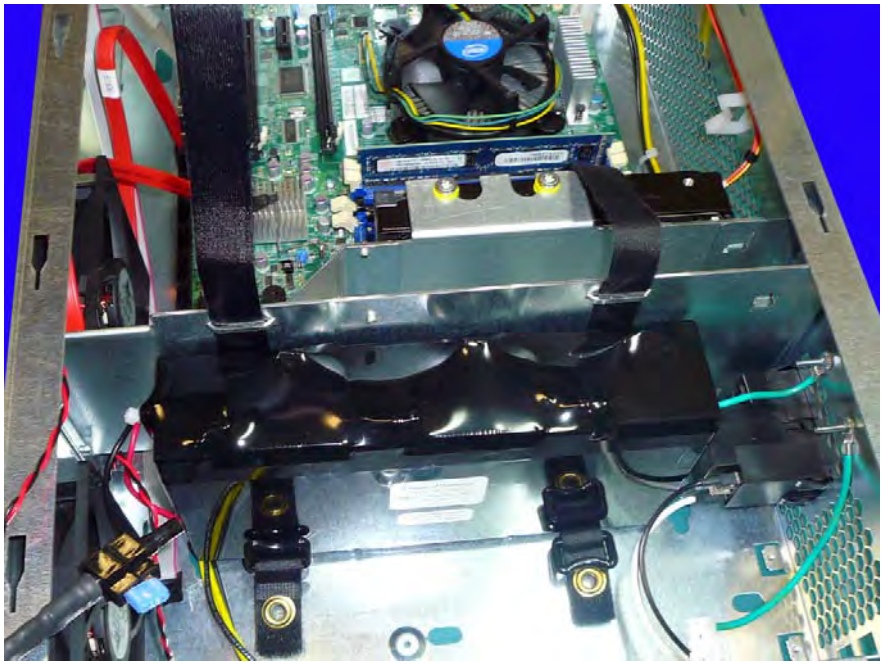

Figure 14-13. Remove the velcro straps that secure the battery to the E-Box frame

2. Disconnect the cable that connects the battery to the PowerCom4 board.

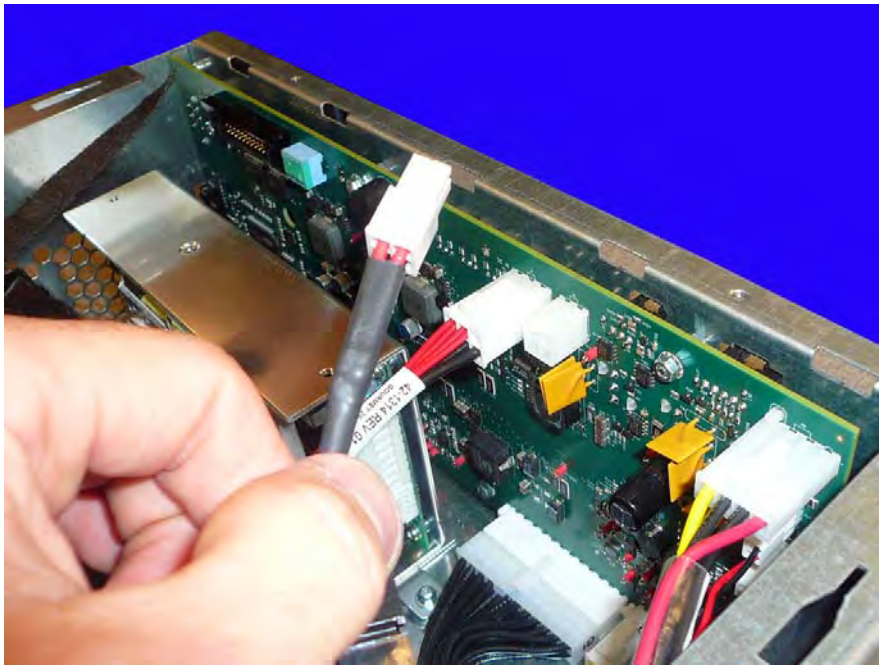

Figure 14-14. Disconnect the cable that connects the battery to the PowerCom4 board

3. Remove the battery from the E-Box.

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Replace the Battery

1. Set the battery into place inside the E-Box. Make sure not to pinch any wires coming from the power entry module.
2. Replace the velcro straps that secure the battery to the E-Box frame.

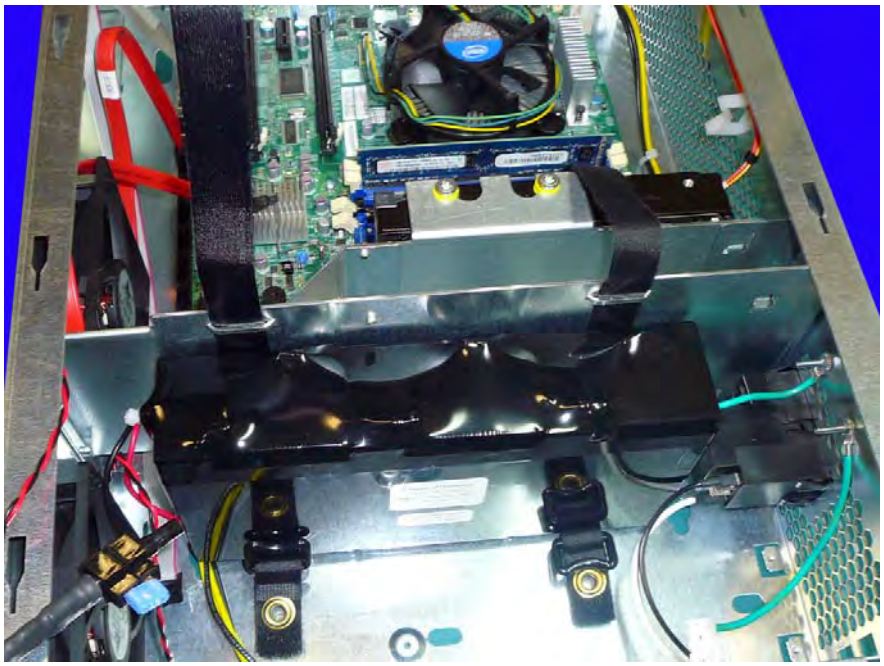

Figure 14-15. Set the battery on the straps and secure the straps

3. Connect the cable that connects the battery to the PowerCom4 board.

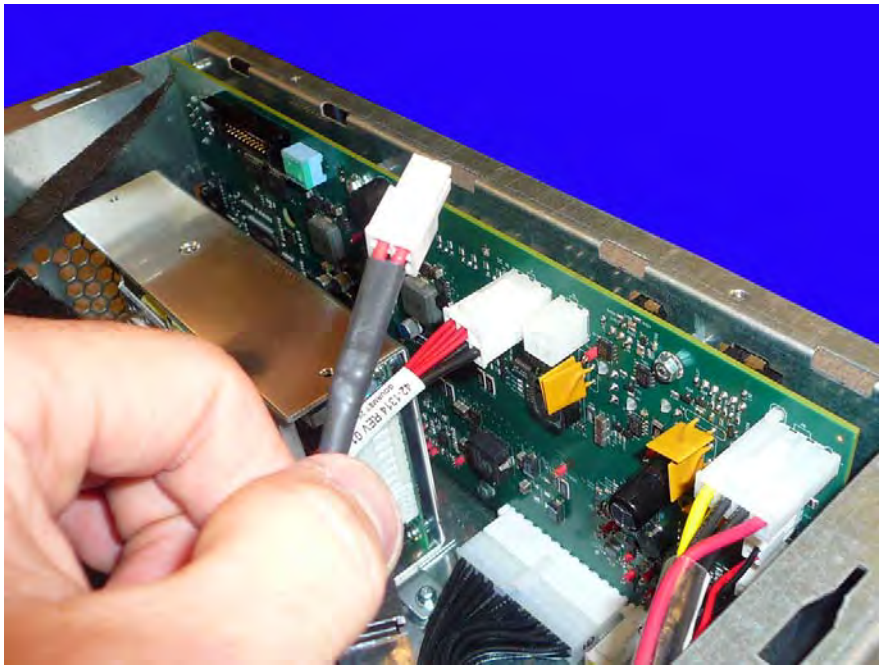

Figure 14-16. Connect the battery cable to the PowerCom4 board

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Remove/Replace the Power Supply

Remove the Power Supply

1. Disconnect the cable that connects the power supply to the PowerCom4 board.

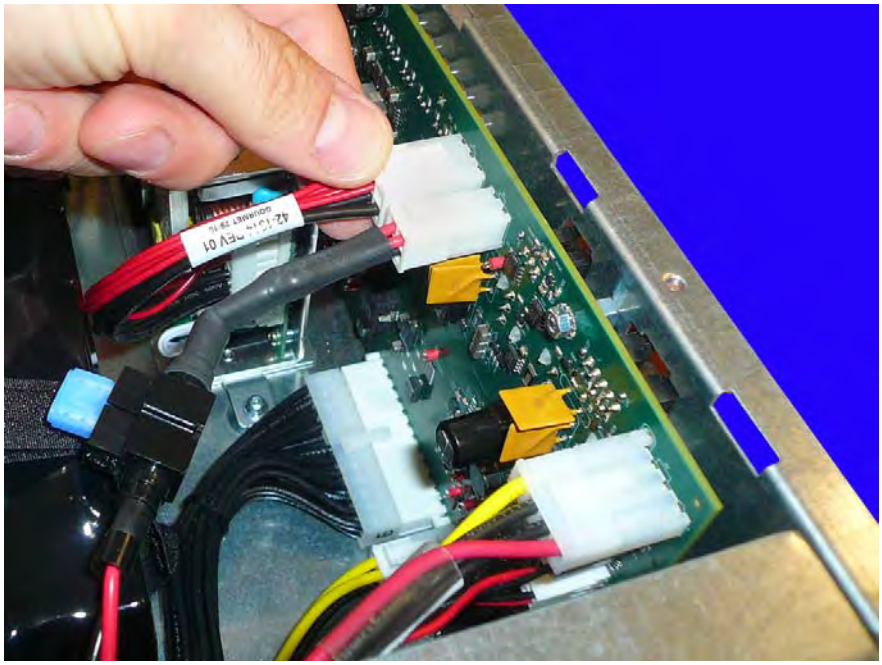

Figure 14-17. Disconnect the power supply cable from the PowerCom4 board.

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2. Remove the screw that secures the power supply to the E-Box base.

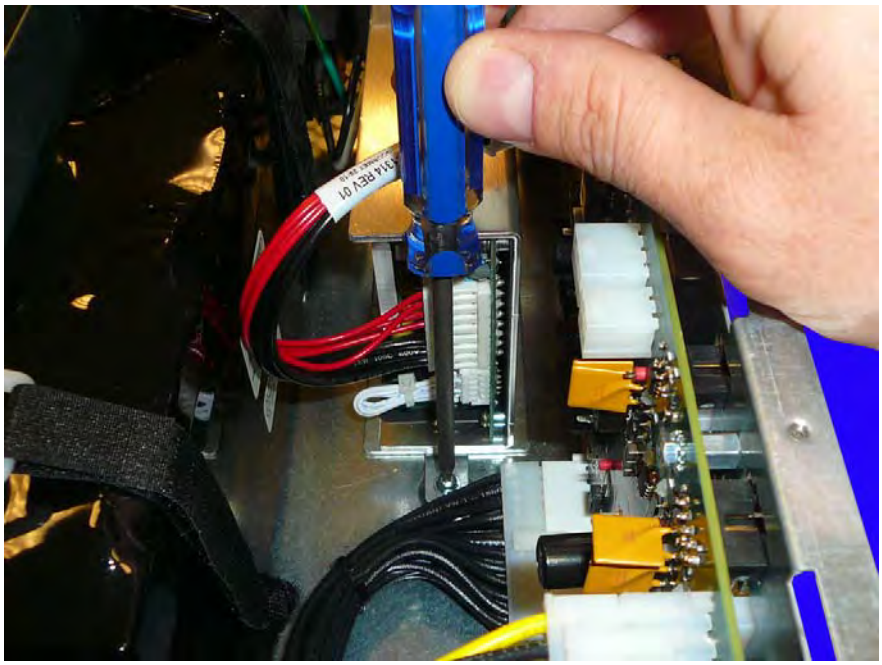

Figure 14-18. Remove the screw that secures the power supply to the E-Box

3. Pull the power supply away from the E-Box wall.
4. Lift, but do not remove, the power supply from the E-Box.

Caution: Pulling the power supply too far from the E-Box could damage the power supply

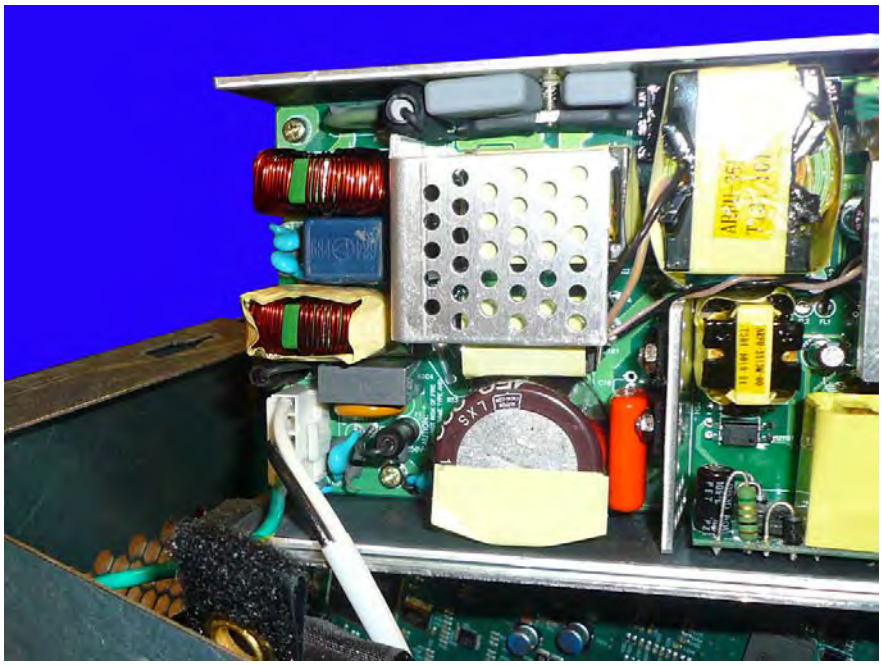

Figure 14-19. Figure 1-19. Power supply power cable

5. Remove the power cable connected to the power supply.

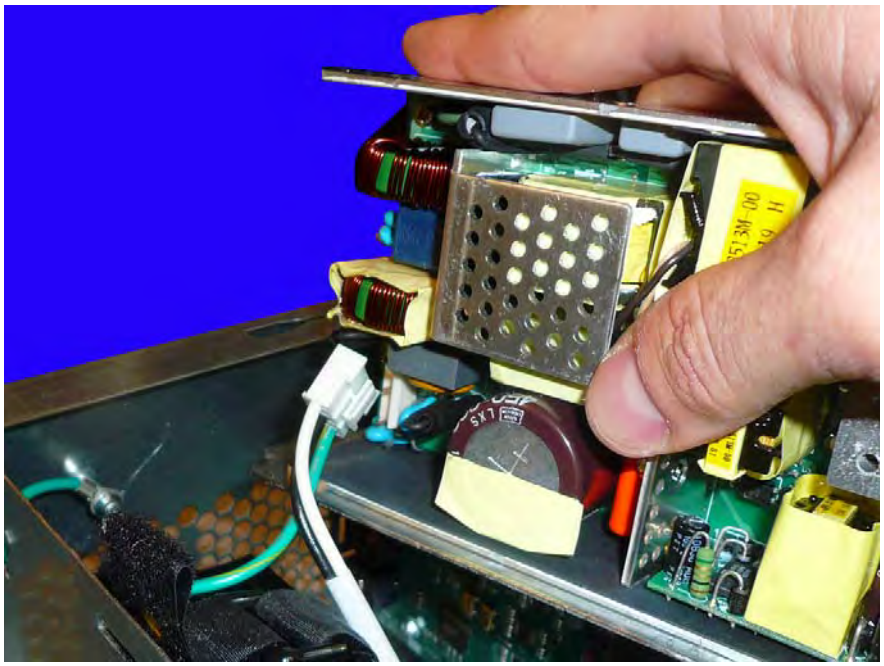

Figure 14-20. Disconnect the power cable from the power supply

6. Remove the power supply from the E-Box.

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Replace the Power Supply

1. Place the power supply into the opening in the E-Box.

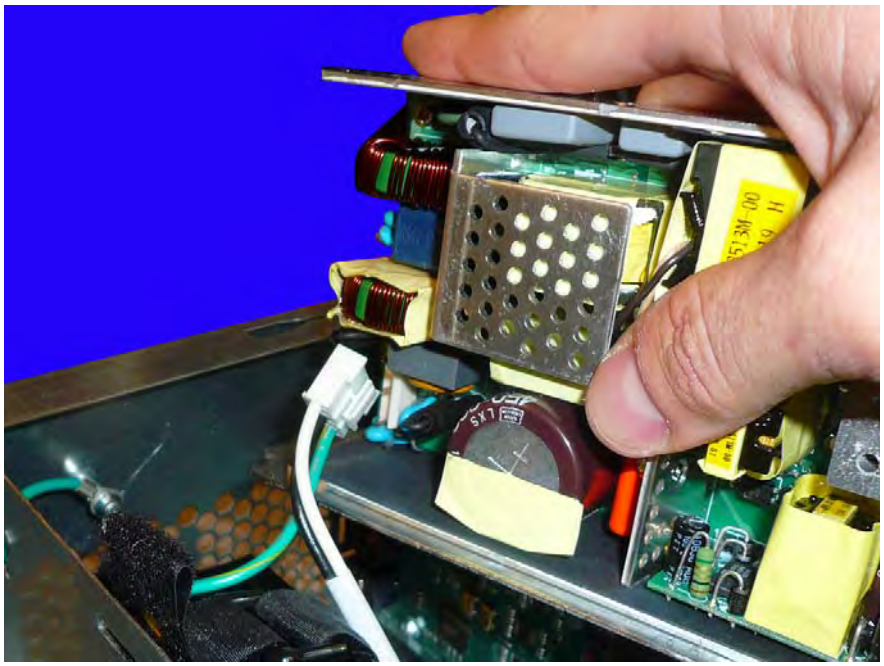

Figure 14-21. Place the power supply

2. Reconnect the power cable to the power supply.

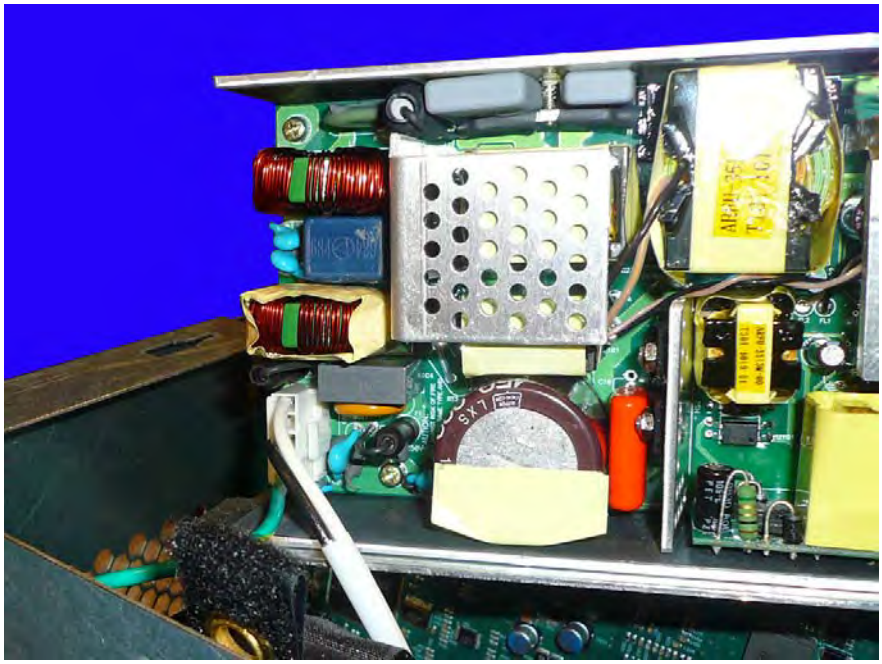

Figure 14-22.

3. Slide the power supply into place underneath the two tabs on the E-Box frame.

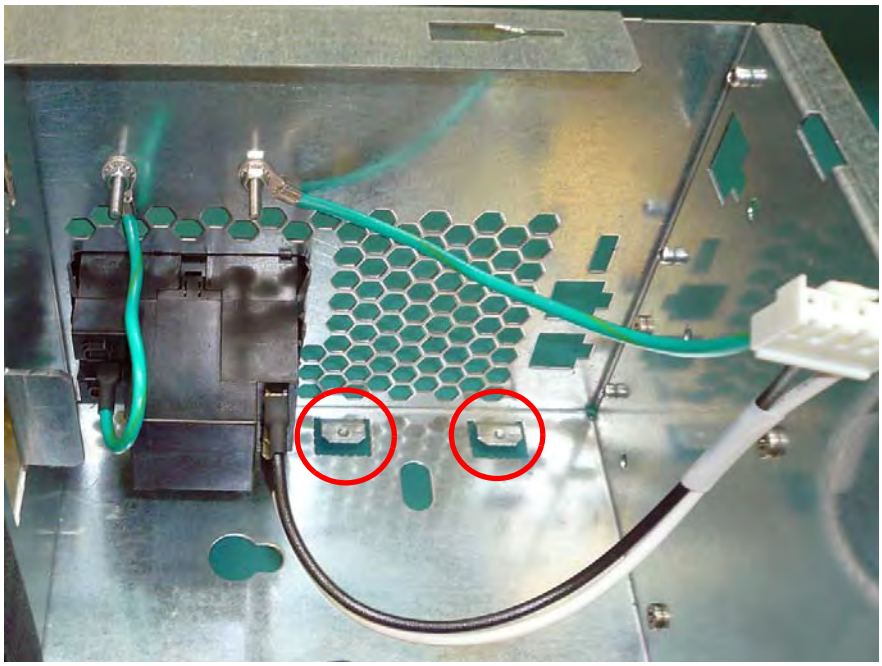

Figure 14-23. Tabs to secure the power supply

4. Secure the power supply to the E-Box by replacing the screw that secures the power supply to the E-Box.

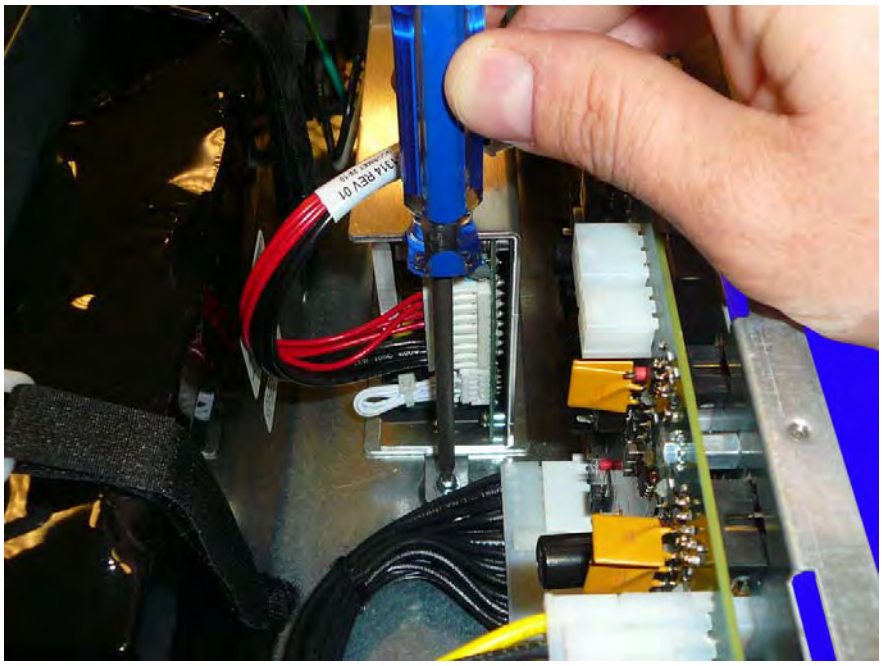

Figure 14-24. Replace the screw that secures the power supply to the E-Box

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5. Connect the power supply power cable to the PowerCom4 board.

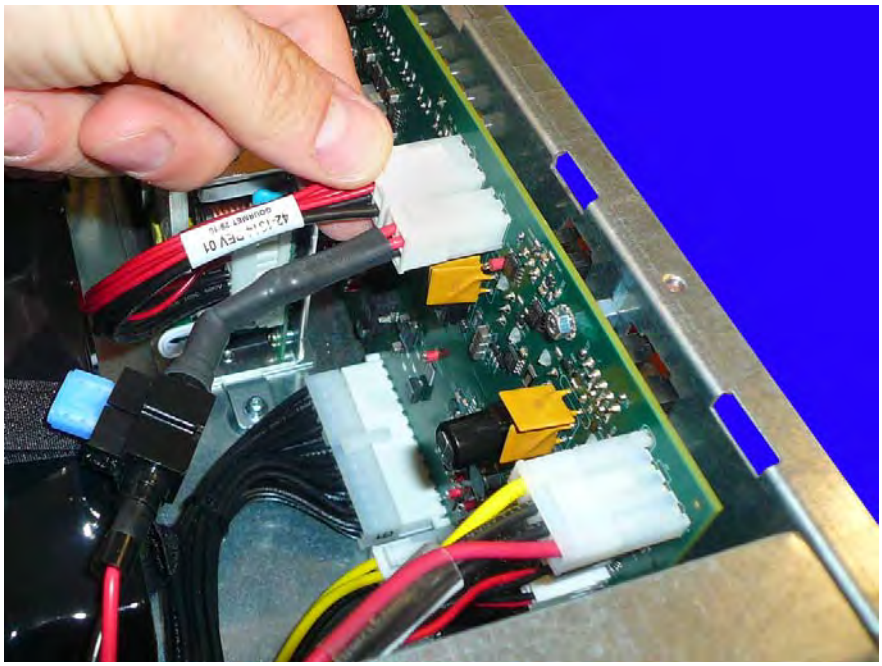

Figure 14-25. Connect the power supply power cable to the PowerCom4 board

Remove the wireless card

1. Remove the screw that secures the wireless card to the E-Box frame.

Figure 14-26. Remove the screw securing the wireless card to the E-Box

2. Lift the wireless card from the E-Box.

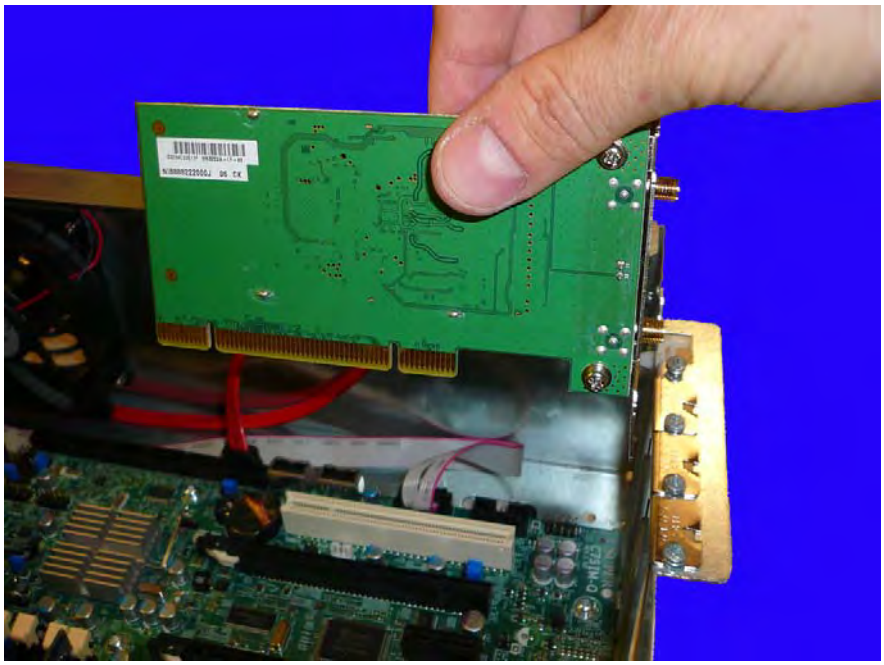

Figure 14-27. Remove the wireless card from the E-Box

Replace the wireless card

1. Place the wireless card into the E-Box, ensuring that it fits snugly into the slot on the motherboard.

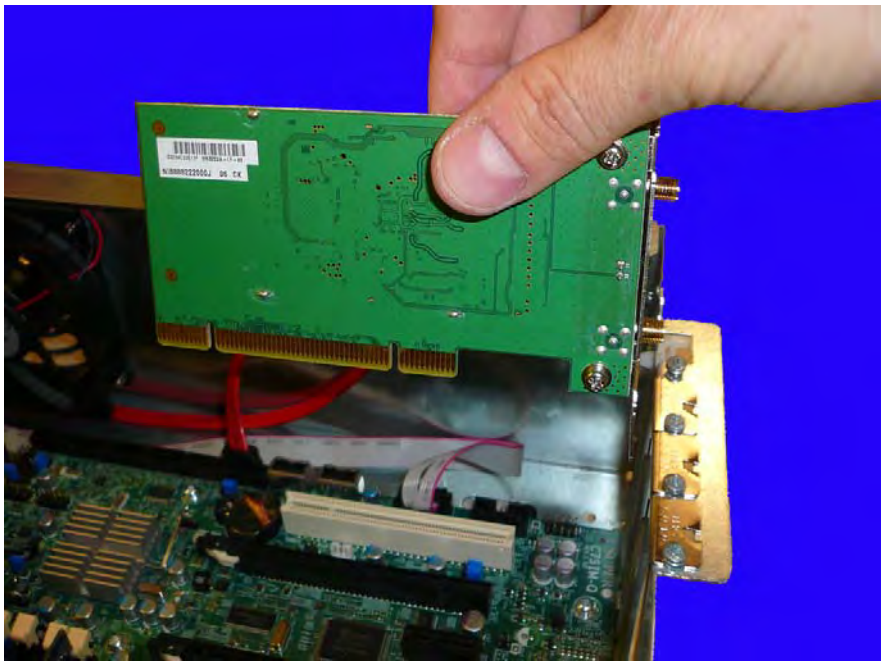

Figure 14-28. Replace the wireless card

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2. Replace the screw that secures the wireless card to the E-Box frame.

Figure 14-29. Replace the screw that secures the wireless card

Remove/Replace the Power Entry Module

Remove the Power Entry Module

1. Remove the battery. Follow the steps in "Remove the Battery" on page 1-8.
2. Remove the power supply. Follow the steps in "Remove the Power Supply" on page 1-10.

3. Remove the two nuts that secure the power entry module to the E-Box frame. Use a nut driver.

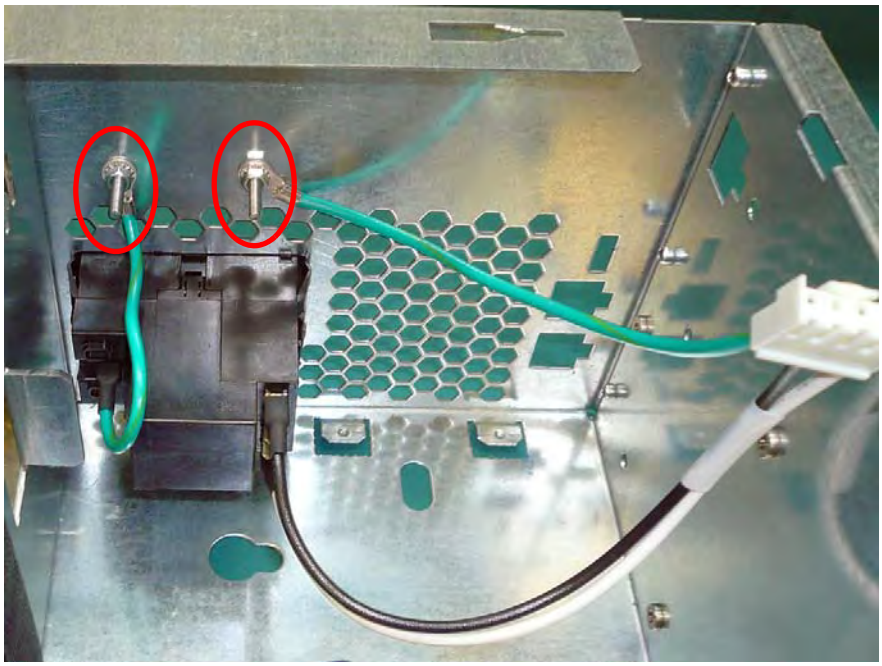

Figure 14-30. Remove the screws securing the power entry module to the E-Box

4. Pinch the tabs on the inside corners of the power entry module and push it out from the inside of the E-Box.
5. Remove the power entry module from the E-Box.

Replace the Power Entry Module

1. Feed the cables through the back of the E-Box into the box.
2. Pinch the tabs on the corners of the power entry module and push the module from the rear into the box.

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3. Replace the two nuts that secure the power entry module wires to the E-Box frame.

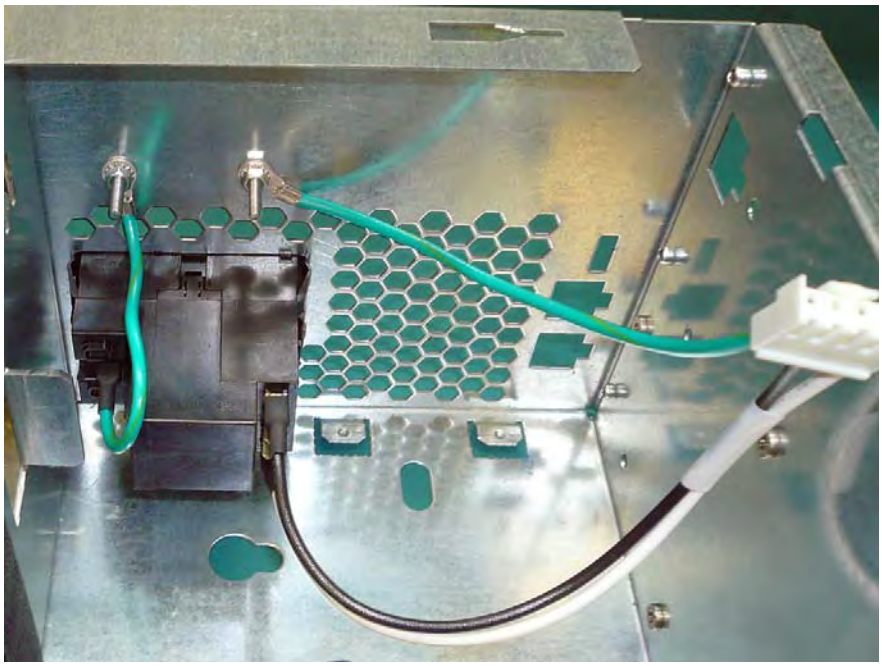

Figure 14-31. Replace the screws that secure the ground wires to the E-Box

4. Replace the power supply. Follow the steps in "Replace the Power Supply" on page 1-13.
5. Replace the battery. Follow the steps in "Replace the Battery" on page 1-9.

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Appendix A: Part List

Link back to the procedure that calls out the given part using the cross reference in the **Where Used** column.

Note: In some cases, parts are listed as *if needed* and may not be referenced in the procedure text.

Part #	Part Name	Agile Description	Where Used
11-4111	door	MFG,ASSY,DOOR,FULL-HIGH,OMNI,2	Doors
11-4112		MFG,ASSY,DOOR,2/3,OMNI,2	
11-4113		MFG,ASSY,DOOR,1/3,MIDDLE OMNI,2	
11-4114		MFG,ASSY,DOOR,1/3,LOWER OMNI,2	
11-4115		MFG,ASSY,DOOR,PC,OMNI,2	
12-3104	cath rack	OPTION,KIT,MODEL,OCR48 OMNICATHLAB,RACK	From a Catheter Rack
12-3105	suture rack	OPTION,KIT,MODEL,OSR24,SUTURE,RACK	From a Suture Rack
12-3109	pull- out shelf	OPTION KIT,MODEL PS1,PULL-OUT SHELF	Pull-out Shelf
13-3109	shelf	ASSY,PULL-OUT SHELF	Three-Drawer Pharmacy Module
13-7000	supply drawer	MFG,ASSY,DRAWER,CARRIER,RX1	Supply Drawer
13-7002	9-drawer carrier	MFG,ASSY,DRAWER,CARRIER,RX2	9-drawer Carrier
13-7003	3-drawer carrier	MFG,ASSY,DRAWER,CARRIER,3-DWR	3-drawer Carrier
14-1100	numeric keypad	MFG,ASSY,KEYPADS	Numeric Keypad
14-1284	PC box cover	MFG,ASSY,COVER,CT,PC,BOX	LCD Bezel Assembly
14-2107	wireway	MFG ASSY,WIREWAY,MAIN,OMNI2,SUPPLY	Wireway
14-7008	double deep drawer	MODEL,OLL6,LARGE,LOCKING DRAWER,RX2	Double-Deep Drawer
14-7009		MODEL,OSL6,LARGE,SENSING DRAWER,RX2	
14-7013	pharmacy drawer	MODEL,OSL12,REGULAR,SENSING DRAWER,RX2	Pharmacy Drawer Removal Procedure
14-7015		MODEL,OSL24,24-BIN,SENSING DRAWER,RX2	
14-7019		MFG,ASSY,96-SD,DRAWER,RX2	
14-7023		MFG,ASSY,2222,SD,DRAWER,RX2	
14-7024		MFG,ASSY,3131,SD,DRAWER,RX2	
14-7016	lit drawer	MODEL,OLMD24,24-LIT,MATRIX,DRAWER	Lit Matrix Drawers
15-7089		DRAWER,MATRIX,24 BIN LIT,OLMD24,NO LINER	

Table A-1. 1-, 2-, 3-cell cabinet service part list

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Part #	Part Name	Agile Description	Where Used
14-7020 14-7021 15-7090 15-7091	unlit drawer	MODEL,OMD48,4/96-UNLIT,MATRIX,DRAWER MODEL,OMD4,4-BIN,MATRIX DRAWER,(UNLIT) DRAWER,MATRIX,4/96 BIN UNLIT,OMD48,NO LINER DRAWER,MATRIX,4-BIN UNLIT,OMD4,NO LINER	Unlit Matrix Drawers
14-8017	rail frame	MFG,ASSY,RAIL,OMNIDISPENSER RX1	Rail Frame
15-1100	cable plate	MFG,ASSY,CABLE,W/MOUNTING PLATES,SUTURE	From a Suture Rack
15-1119	keyboard	MFG,ASSY,USB,KEYBOARD,QWERTY,ENGLISH,CTPC	Keyboard
15-2117	manual override	MFG ASSY,MANUAL OVERRIDE,KEY MOUNT,RX	Manual Override
15-2122	manual override cover	MFG ASSY, MANUAL OVERRIDE COVER, CAM LOCKS #2202 & #2232	Manual Override Cover Removal Procedure
15-2128-20	5-pin cable 12-pin printer cable keyboard door	MFG ASSY, KEYBOARD BEZEL, USB K/B, W/ APS PTR, CTPC, ETX2	Keyboard Door Bezel
15-2130-30	LCD bezel touchpad	MFG,ASSY,LCD BEZEL,USB K/B,10.4" NEC SVGA/LVDS TOUCH PAD, SYNAPTICS, TM-00301-005 (#71-1165)	LCD Bezel Assembly Touch Pad
15-7020	false door front	MFG,ASSY,DRAWER,FRONT,DUMMY RX2	Double-Deep Drawer
15-7035	manual override lever	MFG,ASSY,PULL,LEVER,MANUAL OVERRIDE,RX	9-drawer Carrier
15-7073	manual override cover	MFG,ASSY,COVER,MANUAL OVERRIDE,PROFILE,RX2	9-drawer Carrier OmniDispenser
15-7075 15-7076	dividers	KIT,DIVIDER,24-BIN,LIT,MATRIX KIT,DIVIDER,4/96,BIN,UNLIT,MTR	Bin Configuration
15-8016	top bayonet	MFG,ASSY,TOP,BAYONET OMNIDISPENSER,OMNISUPPLIER	Ribbon Cable
15-8017	second bayonet	MFG,ASSY,MIDDLE,BAYONET OMNIDISPENSER,OMNISUPPLIER	Ribbon Cable
15-8018 15-8022	bottom bayonet	MFG,ASSY,BOTTOM,BAYONET,OMNIRXOMNIDISPENSER MFG,ASSY,BOTTOM,BAYONET OMNISUPPLIER,OMNIDISPENSER	Bottom Bayonet
40-1015	CT PC PowerCom2 box	PCBA,POWERCOM2,CTPC,BOX (inactive)	Color Touch PC Box
40-1050	CT PC PowerCom3 box PCBA	PCBA,POWERCOM3 PLUS,UNIVERSAL	Color Touch PC Box
40-2003 40-2004 40-7031	SPC board	PCB,ASSY,SPC,MAIN,OMNI,2 (NO,SWITCH) PCB,ASSY,SPC,PC,OMNI,2 (NO,SWITCH) PCB,ASSY,CARRIER,RX2	SPC Board SPC Board and Cable Drawer Connect Board
40-3001 40-7051	drawer connect board	PCB,ASSY,DRAWER,CONTROLLER PCB,ASSY,CARRIER,3-DRAWER	Drawer Connect Board

Table A-1. 1-, 2-, 3-cell cabinet service part list

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Part #	Part Name	Agile Description	Where Used
42-1108	SPC cable	CABLE,ASSY,PWR/COMM,TO,SPC	Color Touch PC Box
42-3112	wireway cables	CABLE,ASSY,BOARD,TO,SPC,CATH	SPC Board
42-3116		CABLE,ASSY,BOARD,TO,SPC,SUTURE,RACK	SPC Board and Cable
42-7015		CABLE,ASSY,CARRIER,CTL,TO,SPC	9-drawer Carrier
			Three-Drawer Pharmacy Module
42-8040	rail cable	CABLE,ASSY,RAIL,OMNIDISPENSER	Rail Frame
42-8083	ribbon cable	CABLE,ASSY,HARNESS,RAIL OMNIDISPENSER	Ribbon Cable
42-1119	switchpanel cable	CABLE,ASSY,PWR/COMM,TO SPC-SWPANEL	From a Supply Drawer
			Switchpanel and Cable
			Pull-out Shelf
			LED cable
42-1186	flex cable	CABLE,ASSY,FLEX,TOUCH,PAD CT,PC,BOX	Numeric Keypad
			Touch Pad
42-1187	24-pin keyboard harness	CABLE,HARNESS,NUMERIC,KEYBD,CT,PC,BOX	LCD Bezel Assembly
42-1188	speaker cable	CABLE,ASSY,SPEAKER,CT,PC BOX	Keyboard Door Bezel
42-1202	overhead communications cable	CABLE,ASSY,SPC,INTERCONNECT	Wireway
42-1242	LCD data cable	CABLE,ASSY,LVDS,LCD DISPLAY	LCD Bezel Assembly
			LCD Data Cable
			LCD Display and Touch Screen Glass
42-3113	LED cable	CABLE,ASSY,SWP,TO,LED 12-BUTTON,CATH	From a Catheter Rack
42-3114		CABLE,ASSY,SWP,TO,LED,SUTURE RACK	From a Suture Rack
			LED cable
42-7015	SPC cable	CABLE,ASSY,CARRIER,CTL,TO,SPC	PowerCom2 CT PC Box Removal
			CT PC Box Removal
			SPC Cables
			Suture Rack Housing
42-7037	touch screen data cable	CABLE,ASSY,TOUCHPAD DATA, SERIAL,RXCT	LCD Bezel Assembly
42-7097	inverter cable	CABLE,ASSY,ETX/ETX2 TO INVERTER, CTPC,BOX	LCD Bezel Assembly
51-3002	hooks	HOOK,PLATE,12,POSITION STRAIGHT	Hooks
53-1112	keyboard cable cover	COVER, KEYBOARD CABLE, CT PC BOX	Keyboard Door Bezel
53-2061	upper bracket	BRACKET,HINGE,UPPER,OMNI,2	Three-Drawer Pharmacy Module
53-3031	suture rack housing	HOUSING,DRAWER,SUTURE,RACK	Suture Rack Housing

Table A-1. 1-, 2-, 3-cell cabinet service part list

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Part #	Part Name	Agile Description	Where Used
53-3034 53-3035	dividers	DIVIDER,PLATE,VERTICAL,SUTURE,RACK DIVIDER,PLATE,HORIZ.,SUTURE RACK	Dividers
53-3039 53-3040	suture rack bracket	BRACKET,MOUNTING,RIGHT,SUTURE,RACK BRACKET,MOUNTING,LEFT,SUTURE RACK	Suture Rack Housing
53-7080	controller cable cover	BRACKET,CABLE,CLAMP,DRAWER,RX	9-drawer Carrier
53-7086	rail cable bracket	BRACKET,CABLE,CLAMP MATRIX,RX	Rail Frame
53-7123	slide support brackets	BRACKET,SLIDE,MOUNT,MAN. OVERRIDE,ATTACH	9-drawer Carrier
53-7125	right carrier bracket	BKT,RIGHT,SIDE,3-DWR,CARRIER	Three-Drawer Pharmacy Module
53-7126	left carrier bracket	BKT,LEFT,SIDE,3-DWR,CARRIER	Three-Drawer Pharmacy Module
53-7154	Facia bracket	BKT,LOWER,FACIA,3-DWR	Three-Drawer Pharmacy Module
53-8100	top tray	BRACKET,TOP CROSS BAR,OMNIDISPENSER,OMNISUPPLIER	Ribbon Cable
53-8105	bottom bracket	BRACKET,BOTTOM,CROSS,BAR OMNIDISPENSER	Restock Door
53-8108	fix inhibitor bracket	BRACKET,FIX,INHIBITOR OMNIDISPENSER	Restock Door
53-8118	spacer bracket	BRACKET,SPACER,3,DRAWER CARRIER	Three-Drawer Pharmacy Module
53-8119	(top bayonet) plate	BRACKET,CABLE,MOUNT,TOP BAYONET,ONNIDISPENSER	Ribbon Cable
56-7016	cover panel	COVER,SIDE,3-DWR	Three-Drawer Pharmacy Module
57-2004	connector cover	COVER,CONNECTOR,OMNI,2	Three-Drawer Pharmacy Module
57-3010	front plate handle (screws, front plate)	HANDLE,CATH,RACK	From a Catheter Rack
57-3016	shelf clip	CLIP,RETENTION,MOLDED	Shelves
57-3020	(frame) cover	COVER, SHELF LINER, HALF LENGTH, OMNISUPPLIER	Shelves
57-3025	dividers	CLIP,SHELF DIVIDER,MOLDED	Shelves
65-3008	color coding	LABEL,BUTTON,COVER,SHELF,SWP	Color Coding
71-1095	touch screen glass	TOUCHSCREEN,10.4",GLARE,RESIST	LCD Display and Touch Screen Glass
71-1163	LCD display	DISPLAY,LCD,10.4",NEC NL8060BC26-30D	LCD Display and Touch Screen Glass

Table A-1. 1-, 2-, 3-cell cabinet service part list

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Part #	Part Name	Agile Description	Where Used
71-3000	switchpanel	SWITCHPANEL,SHELF,GREEN	Shelves
71-3002		SWITCHPANEL,12-POSITION,CATH	From a Shelf
71-3003		SWITCHPANEL,8,POSITION,SUTURE	From a Supply Drawer
71-3007		SWITCHPANEL,SHELF,BLUE	From a Pull-out Shelf
71-3008		SWITCHPANEL,DRAWER,BLUE	From a Suture Rack
			From a Catheter Rack
			Switchpanel and Cable
73-1002	speaker	SPEAKER, 10MM X 70MM, 8 OHM, 2W	Speaker
80-9038	LED panel	LED, 5MM, GREEN, PANEL MOUNT, ROH	From a Catheter Rack
	cable plate		LED plate
91-3005	(rail) slide	91-3005SLIDE,CATH,ACCURIDE,C3640-20	Rail Slide
91-7033	door bumper	BUMPER 1.75,O.D.,X,2.9375	Three-Drawer Pharmacy Module
91-8012	trunnion bars (screws)	ASSEMBLY,TRUNNION,BAR,LEFT OMNIDISPENSER	Restock Door
91-8013		ASSEMBLY,TRUNNION,BAR,RIGHT OMNIDISPENSER	
92-1000	#2036 key	CAM,LOCK,#2036	LCD Bezel Assembly
92-1002	lock	CAM,LOCK,#2202	CT PC Box Removal
92-1013		CAM,LOCK,#7202	Locks and Latches
92-1015		CAM,LOCK,#7232	
92-1001	(manual override cover) lock	KEY,RING,.48,O.D	9-drawer Carrier
92-1011		CAM,LOCK,#2232	OmniDispenser
94-6005	(drawer) nuts	NUT,HEX,4-40,SS	From a Supply Drawer
94-6012	(drawer) screws	SCREW,SHCS,8-32,X,1/4,SS	From a Supply Drawer
94-6039	4-40 x 1/4 buttonhead screw	SCREW,BHCS,4-40X1/4,SS	LCD Display and Touch Screen Glass
94-6049	8-32 x 3/8 screw	SCREW,BHCS,8-32X3/8,SS	Color Touch PC Box
94-6063	4-40 x 1/4 SHC screw	SCREW,SHCS,4-40X1/4,SS	Numeric Keypad
94-6092	4-40 x 3/8 SHC screw	SCREW,SHCS,4-40,X,3/8,SS	Keyboard Door Bezel
94-6095	8-32x3/8 SHC screws	SCREW,SHCS,8-32,X,3/8,SS [supply cabinet]	LCD Bezel Assembly
			CT PC Box Removal
94-6111	flat nut	NUT,FLAT,SPRING,4-40,STEEL	Speaker
94-6133	(slide support bracket) screws	SCREW,BH,TORX,8-32,X,1/4,SS	9-drawer Carrier
	{top tray) screws [left side]	(see 94-6181 for right side screws)	Ribbon Cable
94-6137	(top bayonet plate) screw	SCREW,BH,TORX,6-32,X,3/16,SS	Ribbon Cable
94-6138	6-32x1/4 BH screws	SCREW,BH TORX,6-32X1/4,SS [Rx cabinet]	LCD Bezel Assembly
			CT PC Box Removal

Table A-1. 1-, 2-, 3-cell cabinet service part list

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Part #	Part Name	Agile Description	Where Used
94-6140	drawer screw	SCREW,BH,TORX,4-40,X,1/8 PATCH,SS (drawer to board; right carrier bracket to frame)	Drawer Connect Board Three-Drawer Pharmacy Module
94-6142	(door) screws	SCREW,BH,TORX,4-40,X,1/4,SS	Doors
94-6151	(bottom bracket) screw [left side] wireway screws	SCREW,FH,TORX,8-32,X,1/4,SS T15 (see 94-6181 for right bracket screw)	Restock Door Wireway
94-6155	screws	SCREW,BH,TORX,6-32,X,1/8,S (for door hinge, spacer bracket)	Three-Drawer Pharmacy Module
94-6162	6-32 x 3/16" flathead screw (keyboard bracket) screw controller cable cover screw fix inhibitor bracket screw rail cable bracket screw Facia bracket screw	SCREW,FH,TORX,6-32X3/16,100,DEG,C'SINK	Keyboard LCD Bezel Assembly 9-drawer Carrier Restock Door Rail Frame Three-Drawer Pharmacy Module
94-6165	(manual override lever) screws (top bayonet) screw (second bayonet) screw (bottom bayonet) screw	SCREW,BH,TORX,8-32,X,3/8,SS	9-drawer Carrier Ribbon Cable Bottom Bayonet
94-6172	4-40 x 1/4 flathead screw	SCREW,FH,TORX,4-40X1/4,SS	LCD Display and Touch Screen Glass
94-6173	4-40 x 3/16 SHC screw	SCREW,SHCS,4-40X3/16,SS	LCD Bezel Assembly LCD Display and Touch Screen Glass
94-6181	(bottom bracket) screw [right side] (top tray) screws [right side]	SCREW,FH,TORX,8-32,X,3/8,SS NYLON,PATCH (see 94-6151 for left side bracket screws) (see 94-6133 for left side tray screws)	Restock Door Ribbon Cable
94-6198	4-40 x 3/8 buttonhead screw	SCREW,BH,TORX,4-40,X,3/8,SS	Keyboard Door Bezel
94-6203	8-32 x 7/8	SCREW,BH,TORX,8-32,X,7/8,SS	Color Touch PC Box
OS3DRXU	Three drawer pharmacy module	THREE DRAWER PHARMACY MODULE	Three-Drawer Pharmacy Module
OSOMDT	OmniDispenser	OPTION KIT, OMNIDISPENSERTALL	OmniDispenser

Table A-1. 1-, 2-, 3-cell cabinet service part list

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Index

Numerics

3-drawer carrier 2-15
9-drawer carrier 2-5

A

auto power reset 1-18

B

bayonet
  bottom 2-14
  middle 2-12
  top 2-11
bin configuration
  lit matrix drawers 7-3
  unlit matrix drawers 7-2
bin labels 7-4

C

cabinet zones 11-1
cam locks 6-1
cath rack 10-1
  configuration 10-2
  front plate 10-4
  hooks 10-8
  installation 10-1
  LED cable 10-6
  LED panel 10-3
  rail slide 10-8
  removal 10-2
  switchpanel 10-5
catheter rack module 10-1
Color Touch PC Box 1-1
CT PC box 1-1, 1-16, 2-1

D

dip-switch setting 1-18
dividers 3-2
doors 5-1
drawer connect board 8-1

F

fix inhibitor 2-13

I

installation
  double-deep drawer 7-5
  pharmacy drawer 7-6
  supply drawer 7-5
  three-drawer pharmacy module 7-8

K

keyboard 1-4
keyboard door bezel 1-2

L

LCD bezel assembly 1-6
LCD data cable 1-9
LCD display 1-10
lock
  orientation 6-1
  pawl latches 6-1

M

manual override 9-1
manual override cover 6-2
manual override lever 2-6

N

numeric keypad 1-12

O

Omnicell Locking Lid (OLL) 7-1
Omnicell Matrix Drawer (OMD) 7-1
Omnicell Sensing Lid (OSL) 7-1
OmniDispenser 2-7

P

pharmacy cabinets 2-2, 12-1
pharmacy drawer removal 7-15
PowerCom3 board 1-1
pull-out shelf 3-5

R

rail frame 2-7
restock door 2-13
ribbon cable 2-9

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S

shelf clips 3-1
shelves 3-1
SPC board 8-1
speaker 1-5
supply cabinets 2-2, 12-2
suture rack
  brackets 11-1
  color coding 11-6
  dividers 11-5
  housing 11-1
  LED cable 11-7
  LED plate 11-7
  SPC cable 11-9
  switchpanel cables 11-9
suture rack installation
  cabinet preparation 11-1
  dip switches 11-1
suture rack module 11-1
switchpanel 3-1
  catheter rack 4-7
  pull-out shelf 4-4
  shelves 4-2
  supply drawer 4-3
  suture rack 4-5
switchpanel control boards 2-1

T

three-drawer pharmacy module
  configuration 7-14
  install kits 7-8
  switchpanel positions 7-8
tools 1-1, 2-1, 4-1, 5-2, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1
touch pad 1-15
touch screen glass 1-10
trunnion bars 2-13

W

wireway 2-1, 2-16, 6-2

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